

PT encoding RAIDD which is an adaptor molecule containing both death domain  
PT and caspase recruitment domains, for treating hyperproliferative  
PT disorder.  
XX  
XX Claim 3; Page 94; 144pp; English.  
XX  
CC The invention describes a compound (I) 8-50 nucleobases in length  
CC targeted to a nucleic acid molecule (II) encoding RAIDD which is an  
CC adaptor molecule containing both death domain (DD) and caspase  
CC recruitment domains (CARD), where (I) specifically hybridises with and  
CC inhibits expression of RAIDD, or specifically hybridises with at least an  
CC 8-nucleobase portion of an active site on (II). (I) is useful for  
CC inhibiting the expression of RAIDD (Receptor interacting protein (RIP)  
CC associated ICH-1/CED-3-homologous protein with death domain) in cells or  
CC tissues, and for treating an animal having a disease or condition  
CC associated with RAIDD, where the disease or condition is a  
CC hyperproliferative disorder such as cancer, or a growth or metabolic  
CC disorder. (II) is also useful for diagnostics, therapeutics, prophylaxis,  
CC as research reagents and kits, for distinguishing functions of various  
CC members of a biological pathway, and in antisense gene therapy. (I) is  
CC also useful prophylactically, e.g. to prevent or delay infection,  
CC inflammation or tumour formation. This sequence represents a mouse RAIDD  
CC antisense oligonucleotide used to control expression of the RAIDD protein  
XX  
SQ Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 36 GTAGGCGAGGATGCCAGCA 54  
DB 1 GAAGGCGAGGATGCCAGCA 19  
RESULT 1026  
ABQ75387  
ID ABQ75387 standard; DNA; 20 BP.  
XX  
XX AC ABQ75387;  
AC ABQ75387;  
XX  
XX DT 06-NOV-2002 (first entry)  
XX  
XX DE Human RNase HII antisense oligonucleotide SEQ ID NO:20.  
XX  
XX DE RNase H; antisense technology; inhibition; antisense oligonucleotide;  
XX  
XX KW phosphorothioate; ss.  
XX  
XX OS Homo sapiens.  
XX  
XX FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyl gapmer with an 8 nucleotide  
FT deoxy gap and a phosphorothioate backbone; cytosine  
FT residues are 5-methyl cytosines"  
XX  
XX PN WC200264841-A1.  
XX  
XX PD 22-AUG-2002.  
XX  
XX PF 12-FEB-2002; 2002WO-US004243.  
XX  
XX PF 12-FEB-2001; 2001US-00781712.  
XX  
XX PR 12-FEB-2001; 2001US-00781712.  
XX  
XX PA (ISIS-) ISIS PHARM INC.  
XX  
XX PI Crooke ST, Lima WF, Wu H;  
XX  
XX DR WPI; 2002-657606/70.  
XX  
XX PT Use of a mammalian, particularly human, RNase H, for treating an animal

PT with a disease or condition associated with a human RNase H, for  
PT inhibiting the expression of a protein, or for reducing cellular RNA via  
PT antisense technology.  
XX  
XX PS Claim 38; Page 37; 70pp; English.  
XX  
CC The present invention describes a method for promoting the inhibition of  
CC the expression of a protein comprising employing a mammalian RNase H  
CC polypeptide so that cleavage of an RNA strand of an oligonucleotide-RNA  
CC complex duplex occurs. Also described is a compound 8 to 50 nucleobases  
CC in length targeted to the nucleic acid encoding the human RNase HII  
CC polypeptide, where the compound specifically hybridises with and inhibits  
CC the expression of a human RNase HII polypeptide. The compound, which is  
CC an antisense oligonucleotide, is useful for inhibiting the expression of  
CC a human RNase HII polypeptide in cells or tissues, as well as for  
CC treating an animal with a disease or condition associated with a human  
CC RNase HII polypeptide. The method is useful for inhibiting the expression  
CC of a protein, particularly for reducing cellular RNA via antisense  
CC technology. The present sequence represents a human RNase HII antisense  
CC oligonucleotide, which is used in an example from the present invention  
XX  
SQ Sequence 20 BP; 4 A; 12 C; 3 G; 1 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 553 CCCTCAGCGCGCGCTCC 571  
DB 1 CGCCTCAGCGCGCACCC 19  
RESULT 1027  
ABQ75387/c  
ID ABQ75387 standard; DNA; 20 BP.  
XX  
XX AC ABQ75387;  
AC ABQ75387;  
XX  
XX DT 06-NOV-2002 (first entry)  
XX  
XX DE Human RNase HII antisense oligonucleotide SEQ ID NO:20.  
XX  
XX DE RNase H; antisense technology; inhibition; antisense oligonucleotide;  
XX  
XX KW phosphorothioate; ss.  
XX  
XX OS Homo sapiens.  
XX  
XX FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyl gapmer with an 8 nucleotide  
FT deoxy gap and a phosphorothioate backbone; cytosine  
FT residues are 5-methyl cytosines"  
XX  
XX PN WC200264841-A1.  
XX  
XX PD 22-AUG-2002.  
XX  
XX PF 12-FEB-2002; 2002WO-US004243.  
XX  
XX PF 12-FEB-2001; 2001US-00781712.  
XX  
XX PR 12-FEB-2001; 2001US-00781712.  
XX  
XX PA (ISIS-) ISIS PHARM INC.  
XX  
XX PI Crooke ST, Lima WF, Wu H;  
XX  
XX DR WPI; 2002-657606/70.  
XX  
XX PT Use of a mammalian, particularly human, RNase H, for treating an animal  
PT with a disease or condition associated with a human RNase H, for  
PT inhibiting the expression of a protein, or for reducing cellular RNA via  
PT antisense technology.

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XX PS Claim 38; Page 37; 70pp; English.
XX CC The present invention describes a method for promoting the inhibition of
XX CC the expression of a protein comprising employing a mammalian RNase H
XX CC polypeptide so that cleavage of an RNA strand of an oligonucleotide-RNA
XX CC complex duplex occurs. Also described is a compound 8 to 50 nucleobases
XX CC in length targeted to the nucleic acid encoding the human RNase HII
XX CC polypeptide, where the compound specifically hybridizes with and inhibits
XX CC the expression of a human RNase HII polypeptide. The compound, which is
XX CC an antisense oligonucleotide, is useful for inhibiting the expression of
XX CC a human RNase HII polypeptide in cells or tissues, as well as for
XX CC treating an animal with a disease or condition associated with a human
XX CC RNase HII polypeptide. The method is useful for inhibiting the expression
XX CC of a protein, particularly for reducing cellular RNA via antisense
XX CC technology. The present sequence represents a human RNase HII antisense
XX CC oligonucleotide, which is used in an example from the present invention
XX SQ Sequence 20 BP; 4 A; 12 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 234 TGGTGGTGGCGGCGAGTGAC 252
Db 20 TGGTGGTGGCGGCGTGAGGC 2

RESULT 1028
ABL59026/C
ID ABL59026 standard; DNA; 20 BP.
XX AC ABL59026;
XX DT 20-AUG-2002 (first entry)
XX DE Nucleotide sequence of a human aurora 2 kinase inhibitor sas12.
XX DE Nucleotide sequence of a human aurora 2 kinase inhibitor sas12.
XX KW Aurora 2 kinase; aurora 2 kinase inhibitor; cancer; ss.
XX OS Homo sapiens.
XX FN JP2002095479-A.
XX PD 02-APR-2002.
XX PF 22-SEP-2000; 2000JP-00287928.
XX PR 22-SEP-2000; 2000JP-00287928.
XX PA (YANB ) TT PHARM INC.
XX DR WPI; 2002-439988/47.
XX PT New oligonucleotide targets and inhibits human aurora 2 kinase mRNA.
XX PS Claim 3; Fig 1; 12pp; Japanese.
XX CC The present sequence represents an oligonucleotide which targets
XX CC polynucleotides encoding human aurora 2 kinase. The oligonucleotide
XX CC inhibits aurora 2 kinase expression. The oligonucleotide is useful in the
XX CC diagnosis and treatment of cancers
XX SQ Sequence 20 BP; 4 A; 7 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 360 TGGGGAGAGTGACCGCT 378
Db 19 TGGGGAAAGTGACCTCT 1

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## RESULT 1029

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ABO93219
ID ABO93219 standard; DNA; 20 BP.
XX AC ABO93219;
XX DT 21-AUG-2003 (revised)
XX DT 21-OCT-2003 (first entry)
XX DE T. tauschii/wheat D genome microsatellite cfd226 right PCR primer.
XX DE Microsatellite marker; wheat; D genome; mapping; genotyping;
XX KW polymorphism; phenotypic trait; QTL; quantitative trait locus;
XX KW disease-associated gene; development factor; quality factor;
XX KW resistance factor; wheat product; identification; detection;
XX KW genetically modified wheat; PCR; primer; ss.
XX OS Aegilops tauschii.
XX OS Triticum aestivum.
XX FN EP1217079-A1.
XX PD 26-JUN-2002.
XX PF 22-DEC-2000; 2000EP-00403659.
XX PR 22-DEC-2000; 2000EP-00403659.
XX PA (INRG ) INRA INST NAT RECH AGRONOMIQUE.
XX PI Bernard M, Sourdil P, Guyomarch H;
XX DR WPI; 2002-550410/59.
XX PT Map of wheat D genome comprising the genome location of a microsatellite
XX PT marker, useful for e.g. identifying genes responsible for a desired
XX PT phenotypic trait, especially quantitative trait loci in wheat, and
XX PT diseases.
XX PS Claim 4; Page 8; 105pp; English.
XX CC The invention relates to a map of the bread wheat D genome comprising the
XX CC genome location of a microsatellite marker selected from a group of 185
XX CC such markers (ABQ92733-ABQ92917). The invention also encompasses the use
XX CC of left (ABQ92918-ABQ93102) and right (ABQ93103-ABQ93287) primers to
XX CC amplify and detect the microsatellite markers, and to identify genes
XX CC responsible for a phenotypic trait of interest in wheat. Wheat is an
XX CC allohexaploid species consisting of 3 diploid genomes designated A, B and
XX CC D, resulting from two successive intercrossings involving at least three
XX CC different species. The D genome is thought to have been introduced in the
XX CC most recent intercrossing, between the amphiploid AABB and Triticum
XX CC tauschii (DD), probably involving only a limited number of genotypes of
XX CC both species. Due to its polyploid genome, the large size of its genome,
XX CC and its low level of polymorphism, the genetic mapping of wheat has to
XX CC date been difficult. Microsatellites are tandemly repeated sequences
XX CC between one and six nucleotides long, and are very polymorphic in length.
XX CC mainly due to polymerase slippage during replication. This high degree of
XX CC polymorphism makes them especially suitable for the genetic mapping of
XX CC species which show little intraspecies polymorphism, such as wheat. In
XX CC addition, microsatellites are codominant, and exhibit Mendelian
XX CC inheritance. The 185 microsatellite markers of the invention are
XX CC developed from the ancestral diploid donor species Triticum tauschii and
XX CC map to the wheat D genome, which is less polymorphic than the A or B
XX CC genomes. These microsatellite markers thus help to overcome some of the
XX CC problems associated with the genetic mapping of wheat. The wheat D genome
XX CC map and the microsatellite markers and associated primers of the
XX CC invention are useful for identifying genes responsible for a phenotypic
XX CC trait of interest, most notably QTLs (quantitative trait loci). In
XX CC particular they may be used for analysing genes and alleles implicated in
XX CC disease and for identifying development factors, quality factors and
XX CC factors conferring resistance to pathogens and xenobiotics. The

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CC microsatellite markers, and associated primers may be also be used in  
 CC mapping and genotyping diploid and polyploid species of Triticum,  
 CC particularly Aegilops, Triticum monococcum, Triticum durum, Triticum  
 CC aestivum, or related species; for identifying cultivars and hybrids of  
 CC Triticum and related species; to assess whether or not a product  
 CC comprises wheat or a related species; and to assess whether or not a  
 CC product comprises genetically modified wheat. The present sequence  
 CC represents a specifically claimed Triticum tauschii/wheat genome D  
 CC microsatellite marker right PCR primer of the invention. (Updated on 29-  
 CC AUG-2003 to standardise OS field)  
 XX  
 SQ Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02; Indels 0; Gaps 0;  
 Matches 16; Conservative 0; Mismatches 3;

QY 792 CGTTACGCTACATGACATT 810

Db 2 CGCTATGCTTCATGACATT 20

RESULT 1030

ABA89986

ID ABA89986 standard; DNA; 20 BP.

XX AC ABA89986;

XX DT 11-FEB-2002 (first entry)

XX DE Oestrogen receptor alpha gene PCR primer #14.

XX KW Human; oestrogen receptor alpha; ESR-alpha; ER; chromosome 6; Syne-2;  
 KW synaptic nuclei expressed gene 2; haplotype; cytostatic; osteopathic;  
 KW cardiant; vasotropic; gene therapy; vaccine; cancer; osteoporosis;  
 KW cardiovascular disease; oestrogen receptor; PCR primer; sequencing; ss.

XX OS Homo sapiens.

XX PN WC200162969-A2.

XX PD 30-AUG-2001.

XX PF 20-FEB-2001; 2001WO-US005358.

XX PR 22-FEB-2000; 2000US-0183756P.

XX PR 20-OCT-2000; 2000US-00692414.

XX PR 24-JAN-2001; 2001US-00768184.

XX PA (PEKE ) PE CORP NY.

XX PI Kalush F, Cassel MJ, Hwang SS, Winn-Deen ES;

XX DR WPI; 2002-041152/05.

XX PT Novel variant of estrogen receptor alpha polypeptide useful for  
 PT determining the biological activity of a protein for high throughput  
 PT screening and for raising antibodies that elicit an immune response in  
 PT host.

XX PS Claim 17; Fig 2c; 333pp; English.

XX CC The present invention describes an isolated peptide (I) consisting of an  
 CC amino acid sequence selected from: (a) the amino acid sequence of a  
 CC variant of the estrogen receptor alpha (ESR-alpha) protein in AAG68251;  
 CC or (b) a fragment comprising at least 10 contiguous amino acids of the  
 CC protein in AAG68251. (I) has cytostatic, osteopathic, cardiant and  
 CC vasotropic activities, and can be used in gene therapy and vaccine  
 CC production. (I) is useful for identifying an agent that binds to (I), by  
 CC contacting (I) with an agent and assaying the contacted mixture to  
 CC determine whether a complex is formed with the agent bound to the  
 CC peptide. A polynucleotide (II), encoding (I), is useful in the  
 CC development of diagnostics and therapies for diseases and disorders

CC mediated/modulated by an oestrogen receptor (ER). (II) is also useful in  
 CC gene therapy for treating cancer, osteoporosis and cardiovascular  
 CC diseases. The human ESR-alpha gene is located on chromosome 6. ABA89973  
 CC to ABA90010 represent PCR primers, and ABA90011 to ABA90037 represent  
 CC sequencing primers, for the human ESR-alpha gene, which are used in an  
 CC example from the present invention

SQ Sequence 20 BP; 2 A; 7 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02; Indels 0; Gaps 0;  
 Matches 16; Conservative 0; Mismatches 3;

QY 826 TCCTCACCTTGCTTTG 844

Db 1 TCCACAGCCTTGCTTTG 19

RESULT 1031

AAD39532

ID AAD39532 standard; DNA; 20 BP.

XX AC AAD39532;

XX DT 04-OCT-2002 (first entry)

XX DE Human calreticulin antisense oligonucleotide, ISIS 109325.

XX KW Human; calreticulin; antisense compound; hyperproliferative disorder;  
 KW cancer; autoimmune disease; viral infection; cardiovascular disease;  
 KW antisense therapy; cytostatic; immunosuppressive; virucide; antisense;  
 KW phosphorothioate backbone; ss.

XX OS Homo sapiens.

XX OS Synthetic.

XX FH Key

Location/Qualifiers

1..20

/tag= a

/mod\_base= OTHER

/note= "Phosphorothioate backbone"

1..5

/tag= b

/mod\_base= OTHER

/note= "2'methoxyethyl nucleotides"

2

/tag= d

/mod\_base= m5c

5

/tag= e

/mod\_base= m5c

6..20

/tag= c

/mod\_base= OTHER

/note= "2'methoxyethyl nucleotides"

7

/tag= f

/mod\_base= m5c

10

/tag= g

/mod\_base= m5c

11

/tag= h

/mod\_base= m5c

16

/tag= i

/mod\_base= m5c

17

/tag= j

/mod\_base= m5c

WO200236743-A2.

XX

PD 10-MAY-2002.  
XX  
PF 30-OCT-2001; 2001WO-US049045.  
XX  
PR 30-OCT-2000; 2000US-00702327.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Bennett CF, Cowser LM;  
XX  
DR WPI; 2002-479759/51.  
XX  
XX Novel antisense compound targeted to nucleic acid encoding calreticulin,  
PT useful for treating a human having disease or condition associated with  
PT calreticulin e.g. cancer, viral infection, autoimmune disease.  
XX  
PS Claim 3; Page 82; 109pp; English.  
XX  
XX The invention relates to antisense compounds, compositions and methods  
CC for modulating the expression of calreticulin. The compositions comprise  
CC antisense compounds, particularly antisense oligonucleotides, targeted  
CC to nucleic acids encoding calreticulin. The antisense compound is useful  
CC for inhibiting the expression of calreticulin in human cells or tissues.  
CC It is also useful for treating a human having a disease or condition  
CC associated with calreticulin, e.g., hyperproliferative disorder e.g.  
CC cancer, autoimmune disease, viral infection or cardiovascular disease, by  
CC inhibiting expression of calreticulin. It is useful for diagnostics,  
CC therapeutics, prophylaxis and as research reagents and kits. It is also  
CC used in antisense therapy. The present sequence is an antisense compound  
CC targeted to human calreticulin. This sequence is used to study the  
CC antisense inhibition of calreticulin expression-phosphorothioate 2'-MOE  
CC gapmer oligonucleotides  
XX  
SQ Sequence 20 BP; 2 A; 7 C; 6 G; 5 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 928 CAGCTGCTCGTGGCCTGG 946  
||||| |||||  
DB 2 CAGCTGCTCGTGGCCTGG 20  
RESULT 1032  
ABL44407  
ID ABL44407 standard; DNA; 20 BP.  
XX  
AC ABL44407;  
XX  
DT 11-APR-2002 (first entry)  
XX  
DE Human chromosome lp36-35 PCR primer SEQ ID NO:1451.  
XX  
XX Human; chromosome lp36-35; chromosome 21q22.1; Genetic analysis; genome;  
KW PCR primer; ss.  
XX  
XX Homo sapiens.  
OS  
XX JP2001321190-A.  
PN  
XX 20-NOV-2001.  
PD  
XX 12-MAR-2001; 2001JP-00069285.  
PF  
XX 10-MAR-2000; 2000JP-00065716.  
PR  
XX (RIKA ) RIKAGAKU KENKYUSHO.  
PA (GENO-) GENOTEX YG.  
PA  
XX WPI; 2002-144136/19.  
DR  
XX Arraying genome clones.  
PT

XX Claim 4; Page 33; 528pp; Japanese.  
XX  
XX The present invention describes a method of arraying genome clones. The  
CC method comprises: (a) clones of the genomic libraries contained in  
CC multiwell plates numbered for discrimination are mixed in each of the  
CC multiwell plates; (b) a primer designed based on the chromosome marker  
CC sequence is added to the mixture to carry out an amplification reaction;  
CC (c) a signal corresponding to the marker is detected from the resultant  
CC amplified product to specify the discrimination Nos. of the multiwell  
CC plates containing the clones having said marker sequence; (d) the order  
CC of the markers is changed so that the same discrimination Nos. succeed to  
CC the maximum in the specified discrimination Nos. to array the multiwell  
CC plates; (e) the clones in the multiwell plates of the specified  
CC discrimination Nos. are mixed respectively in each wells of longitudinal  
CC and lateral directions; (f) the mixed clones are cultured and the  
CC resultant cultures are amplified by using the above primer; (g) signals  
CC are detected from the amplified products; (h) the clones in the multiwell  
CC plates are specified from the detected result; and (i) the clones are  
CC reconstituted as the positions on the chromosome and arrayed. The  
CC microarray is useful for gene analysis. ABL42957 to ABL45322 represent  
CC PCR primers for human chromosome lp36-35 DNA, and ABL45323 to ABL45634  
CC represent PCR primers for human chromosome 21q22.1, which are  
CC specifically claimed for use in the present invention  
XX  
SQ Sequence 20 BP; 5 A; 4 C; 6 G; 5 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1526 TTCAGCTACAAAGAGGAGGC 1544  
||||| |||||  
DB 1 TTCAGCTACGTATGAGGC 19  
RESULT 1033  
ABT05202  
ID ABT05202 standard; DNA; 20 BP.  
XX  
AC ABT05202;  
XX  
DT 11-OCT-2002 (first entry)  
XX  
DE TNFR1 expression modulation related antisense oligo SEQ ID No 232.  
XX  
XX Antisense compound; tumour necrosis factor receptor 1; liver disease;  
KW TNFR1; hepatitis; liver injury; hyperproliferative disorder; cancer;  
KW mouse; murine; ds.  
XX  
XX Mus sp.  
OS  
XX WO200248168-A1.  
PN  
XX 20-JUN-2002.  
PD  
XX 22-OCT-2001; 2001WO-US051224.  
PF  
XX 24-OCT-2000; 2000US-00695451.  
PR  
XX (ISIS-) ISIS PHARM INC.  
PA  
XX Baker BF, Cowser LM, Zhang H, Dean NM;  
PI WPI; 2002-583481/62.  
DR  
XX Novel antisense compound targeted to nucleic acid molecule encoding tumor  
PT necrosis factor receptor 1 (TNFR1), useful for treating humans having  
PT disease associated with TNFR1 e.g. hepatitis, liver injury, liver cancer.  
XX  
XX Example 21; Page 62; 121pp; English.  
PS  
XX The invention relates to an antisense compound 8 to 30 nucleotides in  
CC

CC length targeted to nucleic acid molecule encoding tumour necrosis factor  
CC receptor 1 (TNFRI), where the antisense compound inhibits expression of  
CC TNFRI. The antisense compound is useful for inhibiting the expression of  
CC TNFRI in cells or tissues. The antisense compound is also useful for  
CC treating an animal (preferably human) having a disease or condition  
CC associated with TNFRI, e.g. a liver disease (such as hepatitis), or liver  
CC injury or a hyperproliferative disorder such as cancer, by inhibiting  
CC the expression of TNFRI. The antisense compound is useful for  
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.  
CC This polynucleotide sequence represents a mouse oligonucleotide relating  
CC to the TNFRI of the invention  
XX

SQ Sequence 20 BP; 2 A; 6 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1565 TGCTGACTCAGGCAGGCC 1583

Db 1 TGCTGGCTCAGGCAGTCC 19

#### RESULT 1034

ABK27372/C

ID ABK27372 standard; DNA; 20 BP.

XX AC ABK27372;

XX DT 09-APR-2002 (first entry)

XX DE Mutant gamma-aminobutyric acid receptor GABARD subunit PCR primer #15.

XX Human; Anticonvulsant; Tranquilliser; Antimanic; Antidepressant;  
KW Nootropic; Neuroprotective; Neuroleptic; Antimigraine; Anorectic;  
KW gamma-aminobutyric acid receptor subunit; GABA; epilepsy; anxiety;  
KW manic depression; phobic obsessive symptom; Alzheimer's disease;  
KW schizophrenia; migraine; obesity; receptor; primer; ss.

OS Homo sapiens.

XX WO200198486-A1.

XX PD 27-DEC-2001.

XX PF 20-JUN-2001; 2001WO-AU000729.

XX PR 20-JUN-2000; 2000AU-00008260.

XX PR 13-SEP-2000; 2000AU-00000098.

XX PR 11-MAY-2001; 2001AU-00004953.

XX PA (BION-) BIONOMICS LTD.

XX PI Wallace RH, Mulley JC, Berkovic SF, Harkin LA, Dibbens LM;

XX DR WPI; 2002-122280/16.

XX PT Mutant gamma-aminobutyric acid receptor subunits and DNA molecule, useful  
XX for diagnosing epilepsy, Alzheimer's disease, migraine, obesity, anxiety,  
XX manic depression and schizophrenia.  
XX Example 5; Page 52; 99pp; English.

XX The invention relates to an isolated mammalian polypeptide (I), which is  
XX a mutant of gamma-aminobutyric acid (GABA) receptor subunit. The mutation  
XX disrupts the functioning of an assembled GABA receptor, its functional  
XX fragment or homologue, and creates a phenotype of epilepsy, anxiety,  
XX manic depression, phobic obsessive symptoms, Alzheimer's disease,  
XX schizophrenia, migraine and/or obesity. (I), the polynucleotide (II)  
XX encoding (I) and antibody (III) to (I) are useful in the diagnosis of  
XX epilepsy, anxiety, manic depression, phobic obsessive symptoms,  
XX Alzheimer's disease, schizophrenia, migraine and/or obesity. (III) is  
XX useful for treating the above conditions. (I)-(III) are useful in

CC screening of candidate pharmaceutical agents, where high-throughput  
CC screening techniques are employed. (II) is useful to detect and  
CC quantitate gene expression in biological samples. Oligonucleotides or  
CC longer fragments derived from (II) are useful as probes in a microarray  
CC used to monitor the expression level of large number of genes. (I)-(III)  
CC are useful for the study of the function of a GABA receptor, to study the  
CC mechanism of the disease as related to GABA receptor, for the creation of  
CC explant mammalian cultures which express a mutant GABA receptor and for  
CC the evaluation of potential therapeutic interventions. ABK27372-ABK27399  
CC represent mutant gamma-aminobutyric acid receptor subunit coding  
XX sequences and PCR primers of the invention  
XX

SQ Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1085 AGGTGTGACACTGTGTA 1103

Db 19 AGTGGTGCCATTGTCGTA 1

#### RESULT 1035

ABA94547

ID ABA94547 standard; DNA; 20 BP.

XX AC ABA94547;

XX DT 09-APR-2002 (first entry)

XX DE Mycosphaerella species ribosomal gene-specific primer ITS2.

XX Fungal; pathogen; banana; polymerase chain reaction; Mycosphaerella;  
KW internal transcribed spacer; ITS; PCR primer; ss.  
XX Synthetic.

OS Mycosphaerella sp.

XX WO200196600-A2.

XX PD 20-DEC-2001.

XX PF 15-JUN-2001; 2001WO-EP006783.

XX PR 16-JUN-2000; 2000US-0211902P.

XX PA (SYGN) SYNGENTA PARTICIPATIONS AG.

XX PI Barnett CJ, Beck JJ;

XX DR WPI; 2002-130742/17.

XX Novel oligonucleotide primer useful for polymerase chain reaction-based  
XX detection of Mycosphaerella species, a banana fungal pathogen.  
XX Example 4; Page 23; 27pp; English.

XX The invention relates to oligonucleotide primers for use in polymerase  
XX chain reaction (PCR)-based detection of a Mycosphaerella sp., a fungal  
XX pathogen of banana. The method involves isolating DNA from a plant tissue  
XX infected with Mycosphaerella sp., amplifying a part of ITS (internal  
XX transcribed spacer) sequence using the DNA as template in PCR with the  
XX specified primer pairs and detecting Mycosphaerella sp. by visualizing  
XX the amplified part of ITS sequence. The primers enable the detection of  
XX specific isolates of fungal pathogens and the monitoring of disease  
XX development in plant populations. Sequences ABA94546-549 represent  
XX ribosomal gene-specific primers synthesised for testing in combination  
XX with the primers specific for the ITS regions

SQ Sequence 20 BP; 2 A; 6 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

```

Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1549 CTTGCGTCTTCGTCGATGC 1567
DB 2 CTTGCGTCTTCGTCGATGC 20

RESULT 1036
ABA94548/c
ID ABA94548 standard; DNA; 20 BP.
XX
AC ABA94548;
XX
DT 09-APR-2002 (first entry)
XX
DE Mycosphaerella species ribosomal gene-specific primer ITS3.
XX
KW Fungal; pathogen; banana; polymerase chain reaction; Mycosphaerella;
XX internal transcribed spacer; ITS; PCR primer; ss.
XX
OS Synthetic.
XX Mycosphaerella sp.
XX WO200196600-A2.
XX
PD 20-DEC-2001.
XX
PF 15-JUN-2001; 2001WO-BP006783.
XX
PR 16-JUN-2000; 2000US-0211902P.
XX
PA (SYGN ) SYNGENTA PARTICIPATIONS AG.
XX
PI Barnett CJ, Beck JJ;
XX
DR WPI; 2002-130742/17.
XX
XX Novel oligonucleotide primer useful for polymerase chain reaction-based
XX detection of Mycosphaerella species, a banana fungal pathogen.
XX
XX Example 4; Page 23; 27pp; English.
XX
CC The invention relates to oligonucleotide primers for use in polymerase
CC chain reaction (PCR)-based detection of a Mycosphaerella sp., a fungal
CC pathogen of banana. The method involves isolating DNA from a plant tissue
CC infected with Mycosphaerella sp., amplifying a part of ITS (internal
CC transcribed spacer) sequence using the DNA as template in PCR with the
CC specified primer pairs and detecting Mycosphaerella sp. by visualizing
CC the amplified part of ITS sequence. The primers enable the detection of
CC specific isolates of fungal pathogens and the monitoring of disease
CC development in plant populations. Sequences ABA94548-549 represent
CC ribosomal gene-specific primers synthesised for testing in combination
CC with the primers specific for the ITS regions
XX
SQ Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1549 CTTGCGTCTTCGTCGATGC 1567
DB 2 CTTGCGTCTTCGTCGATGC 20

RESULT 1037
ABA94548/c
ID ABA94548 standard; DNA; 20 BP.
XX
AC ABA94548;
XX
DT 14-JAN-2003 (first entry)
XX

```

```

XX Cordyceps PCR primer ITS3.
XX
KW Ribosome ribonucleic acid; rRNA; Cordyceps crassisporea; classification;
KW Cordyceps sinensis; ss; PCR; primer.
XX
OS Cordyceps sp.
XX
PN JP2002204696-A.
XX
PD 23-JUL-2002.
XX
PF 12-JAN-2001; 2001JP-00004805.
XX
PR 12-JAN-2001; 2001JP-00004805.
XX
PA (HEAL-) HEALTHWAY KK.
XX (KANE/) KANESHIRO N.
XX
DR WPI; 2002-639075/69.
XX
XX Ribosome RNA gene base sequence of Cordyceps sinensis for classification
XX of seeds of Cordyceps sinensis.
XX
PS Disclosure; Page 11; 33pp; Japanese.
XX
XX The invention relates to a novel base sequence which is part of a fully
XX defined ribosome ribonucleic acid (rRNA) gene of Cordyceps crassisporea.
XX The base sequences can be used for the classification of Cordyceps
XX sinensis. The sequence represents a PCR primer used in the invention
XX
XX Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1549 CTTGCGTCTTCGTCGATGC 1567
DB 19 CTTGCGTCTTCGTCGATGC 1

RESULT 1038
ABA94548/c
ID ABA94548 standard; DNA; 20 BP.
XX
AC ABA94548;
XX
DT 14-JAN-2003 (first entry)
XX
DE Cordyceps PCR primer ITS3.
XX
KW Ribosome ribonucleic acid; rRNA; Cordyceps crassisporea; classification;
KW Cordyceps sinensis; ss; PCR; primer.
XX
OS Cordyceps sp.
XX
PN JP2002204696-A.
XX
PD 23-JUL-2002.
XX
PF 12-JAN-2001; 2001JP-00004805.
XX
PR 12-JAN-2001; 2001JP-00004805.
XX
PA (HEAL-) HEALTHWAY KK.
XX (KANE/) KANESHIRO N.
XX
DR WPI; 2002-639075/69.
XX
XX Ribosome RNA gene base sequence of Cordyceps sinensis for classification
XX of seeds of Cordyceps sinensis.
XX

```

```
PS Disclosure; Page 11; 33pp; Japanese.
XX
CC The invention relates to a novel base sequence which is part of a fully
CC defined ribosome ribonucleic acid (rRNA) gene of Cordyceps crassispora.
CC The base sequences can be used for the classification of Cordyceps
CC sinensis. The sequence represents a PCR primer used in the invention
XX
SQ Sequence 20 BP; 2 A; 6 C; 5 G; 7 T; 0 U; 0 Other;

  Query Match      0.8%; Score 14.2; DB 1; Length 20;
  Best Local Similarity 84.2%; Pred. No. 8.7e+02;
  Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1549 CTTGGTCTTCGTCGATGC 1567
Db ||||| ||||| ||||| |||||
  2 CTGCGTCTTCATCGATGC 20

RESULT 1039
AAD34903
ID AAD34903 standard; DNA; 20 BP.
XX
AC AAD34903;
XX
DT 16-JUL-2002 (first entry)
XX
DE Human E2F transcription factor 2 antisense oligo, ISIS #114100.
XX
KW Human; E2F transcription factor 2; hyperproliferative disorder; cancer;
KW developmental disorder; antisense; therapy; phosphorothioate backbone;
KW cytostatic; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone"
FT modified_base 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 2
FT /tag= c
FT /mod_base= m5C
FT modified_base 4
FT /tag= d
FT /mod_base= m5C
FT modified_base 5
FT /tag= e
FT /mod_base= m5C
FT modified_base 8
FT /tag= f
FT /mod_base= m5C
FT modified_base 9
FT /tag= g
FT /mod_base= m5C
FT modified_base 10
FT /tag= h
FT /mod_base= m5C
FT modified_base 11
FT /tag= i
FT /mod_base= m5C
FT modified_base 14
FT /tag= j
FT /mod_base= m5C
FT modified_base 16..20
FT /tag= k
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 20

PS Disclosure; Page 11; 33pp; Japanese.
XX
CC The invention relates to a novel base sequence which is part of a fully
CC defined ribosome ribonucleic acid (rRNA) gene of Cordyceps crassispora.
CC The base sequences can be used for the classification of Cordyceps
CC sinensis. The sequence represents a PCR primer used in the invention
XX
SQ Sequence 20 BP; 2 A; 6 C; 5 G; 7 T; 0 U; 0 Other;

  Query Match      0.8%; Score 14.2; DB 1; Length 20;
  Best Local Similarity 84.2%; Pred. No. 8.7e+02;
  Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1387 CTCCTCACCAGCTGTGC 1405
Db ||||| ||||| ||||| |||||
  2 CTCCTGCCCCAGCTGTGC 20

RESULT 1040
AAD38471
ID AAD38471 standard; DNA; 20 BP.
XX
AC AAD38471;
XX
DT 10-SEP-2002 (first entry)
XX
DE Bovine MHC class I exon 2 amplifying PCR primer, BoCIPP-E2B.
XX
KW Bovine; immunological rejection; nuclear transfer; NT; immune response;
KW MHC-I; major histocompatibility complex; embryo transfer; PCR; primer;
KW MHC class I exon 2 DNA; ss.
XX
OS Bos sp.
XX
PN WO200229000-A2.
XX
```

PD 11-APR-2002.  
 PF 03-OCT-2001; 2001WO-US030925.  
 XX  
 PR 03-OCT-2000; 2000US-0237673P.  
 XX  
 PA (CORR ) CORNELL RES FOUND INC.  
 XX  
 PI Davies CJ, Schlafer DH, Hill JR;  
 XX  
 DR WPI; 2002-444101/47.  
 XX  
 XX Minimizing immunological rejection of nuclear transfer fetuses, by  
 PT transferring the nuclear transfer embryo into an embryo recipient for  
 PT development of the fetus.  
 XX  
 XX Example 1; Page 71; 103pp; English.  
 PS  
 CC The present invention relates to a method of minimising immunological  
 CC rejection of a nuclear transfer (NT) foetus by transferring a nuclear  
 CC transfer embryo into an embryo recipient under conditions effective for  
 CC the development of a nuclear transfer foetus with minimal risk of  
 CC immunological rejection of the foetus due to maternal anti-foetal major  
 CC histocompatibility complex (MHC)-I immune response. The method is useful  
 CC for minimising immunological rejection of a NT foetus. It is also useful  
 CC for performing embryo transfer. The present DNA sequence is a PCR primer  
 CC which is used for amplifying bovine MHC class I exon 2 DNA. This sequence  
 CC is used in the exemplification of the invention  
 XX  
 XX Sequence 20 BP; 5 A; 5 C; 7 G; 3 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1593 CGTGGTGACACCGAGTTC 1611  
 DB 2 CGTGGACGACACCGAGTTC 20  
 RESULT 1041  
 AAS96666/c  
 ID AAS96666 standard; DNA; 20 BP.  
 AC AAS96666;  
 XX  
 XX 09-APR-2002 (first entry)  
 DT  
 DE Telomerase reverse transcriptase, antisense oligonucleotide #76.  
 XX  
 XX Telomerase reverse transcriptase; TERT; cytostatic; apoptosis;  
 KW cell growth inhibitor; antisense oligonucleotide; antisense technology;  
 XX ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 OS  
 XX WO200188198-A1.  
 PN  
 XX 22-NOV-2001.  
 PD  
 XX  
 XX 15-MAY-2001; 2001WO-US015774.  
 PF  
 XX  
 XX 16-MAY-2000; 2000US-00572423.  
 PR  
 XX 07-DEC-2000; 2000US-00733294.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX Monia BP, Gaarde WA, Freier SM, Wanciewicz E;  
 PI  
 XX WPI; 2002-075321/10.  
 DR  
 XX  
 XX New compound targeted to nucleic acid molecule encoding telomerase  
 PT

PT transcriptase (TERT), which specifically hybridizes with and inhibits  
 PT expression of TERT, useful for modulating apoptosis and inhibiting cell  
 XX growth.  
 XX Claim 26; Page 91; 154pp; English.  
 XX  
 CC The invention describes a compound, 8-50 nucleobases in length targeted  
 CC to a nucleic acid molecule encoding human TERT (telomerase reverse  
 CC transcriptase), where the compound specifically hybridizes with and  
 CC inhibits the expression of TERT. A series of oligonucleotides were  
 CC designed to target different regions of the human TERT RNA. These were 20  
 CC nucleotides in length and composed of a central gap region consisting of  
 CC ten 2'-deoxynucleotides, flanked on both sides (5' and 3' directions) by  
 CC five-nucleotide wings. The wings were composed of 2'-methoxyethyl (2'-  
 CC MOE) nucleotides. The compounds were analysed for their effect on human  
 CC TERT mRNA levels by reverse transcriptase (RT)-polymerase chain reaction  
 CC (PCR). The compound is useful for inhibiting the expression of TERT in  
 CC cells or tissues, for treating a human having disease or condition  
 CC associated with TERT, for modulating apoptosis, for inhibiting cell  
 CC growth (preferably, cancer cell growth), in antisense therapy and for  
 CC diagnostics and therapeutics. This sequence is an antisense  
 CC oligonucleotide used to modulate the activity of nucleic acid molecules  
 CC encoding TERT, described in the method of the invention  
 XX  
 XX Sequence 20 BP; 7 A; 9 C; 2 G; 2 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 352 GGGTCTGATGGGAGAGTG 370  
 DB 20 GGGTCTGATGGTGGACTG 2  
 RESULT 1042  
 ABI95967/c  
 ID ABI95967 standard; DNA; 20 BP.  
 XX  
 XX ABI95967;  
 AC  
 XX 16-FEB-2002 (first entry)  
 DT  
 DE Capture oligonucleotide Zip ID#3054 oligo #9.  
 XX  
 XX Human; K-ras; PCR primer; probe; capture probe; mutation detection;  
 KW ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease;  
 KW infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer;  
 KW oncogene; tumour suppressor; human papillomavirus; forensic;  
 KW environmental monitoring; food industry; feed industry; ss.  
 XX  
 OS Synthetic.  
 OS  
 XX WO200179548-A2.  
 PN  
 XX 25-OCT-2001.  
 PD  
 XX 04-APR-2001; 2001WO-US010958.  
 PF  
 XX 14-APR-2000; 2000US-0197271P.  
 PR  
 XX (CORR ) CORNELL RES FOUND INC.  
 PA  
 XX Barany F, Zirvi M, Gerry NP, Favis R, Kliman R;  
 PI  
 XX WPI; 2002-034366/04.  
 DR  
 XX Designing capture oligonucleotide probes for use on a support to which  
 PT complementary oligonucleotides hybridize with little mismatch.  
 XX  
 XX Example 5; Fig 29; 300pp; English.  
 XX  
 XX The present invention describes a method (M1) for designing capture  
 CC

CC oligonucleotide probes (I) for use on a support to which complementary  
 CC oligonucleotide probes (II) will hybridise with little mismatch, where  
 CC (I) have melting temperatures within a narrow range. The method is useful  
 CC for detecting infectious diseases caused by bacterial infectious agents  
 CC e.g. Salmonella, Listeria monocytogenes and Haemophilus influenza, fungal  
 CC infectious agents e.g. Cryptococcus neoformans, Candida albicans and  
 CC Aspergillus fumigatus, viruses e.g. T-cell lymphocytotropic virus,  
 CC Epstein-Barr virus and polio virus, and parasitic infectious agents  
 CC selected from Onchocerca volvulus, Entamoeba histolytica and Dracunculus  
 CC medinis. The method is also useful for detecting genetic diseases such  
 CC as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.  
 CC Detecting cancer involving oncogenes, tumour suppressor genes, or genes  
 CC involved in DNA amplification, replication, recombination or repair, the  
 CC cancer is specifically associated with a gene selected from BRCA1 gene,  
 CC p53 gene, human papillomavirus types 16 and 18 and liver cancers. The  
 CC method is also used for environmental monitoring, forensics and the food  
 CC and feed industry, detecting comprises scanning (using e.g. a scanning  
 CC electron microscope and infrared microscope) the support at the  
 CC particular sites and identifying if ligation of the oligonucleotide probe  
 CC sets occurred and correlating (using a computer) identified ligation to a  
 CC presence or absence of the target nucleotide sequences. ABI82074 to  
 CC ABI97546 represent oligonucleotide sequences used in the exemplification  
 CC of the present invention  
 CC  
 XX  
 SQ Sequence 20 BP; 5 A; 7 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 922 CTGTTCCAGCGCCCGTG 940  
 DB 19 CTGGTCGGCTACTCCGTG 1

RESULT 1043  
 ABI93287/C  
 ID ABI93287 standard; DNA; 20 BP.  
 XX  
 AC ABI93287;  
 XX  
 DT 15-FEB-2002 (first entry)  
 XX  
 DE Capture oligonucleotide Zip ID#374 oligo #9.  
 XX  
 KW Human; K-ras; PCR primer; probe; capture probe; mutation detection;  
 KW ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease;  
 KW infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer;  
 KW oncogene; tumour suppressor; human papillomavirus; forensic;  
 KW environmental monitoring; food industry; feed industry; ss.  
 XX  
 OS Synthetic.  
 XX  
 FN WO200179548-A2.  
 XX  
 PD 25-OCT-2001.  
 XX  
 PF 04-APR-2001; 2001WO-US010958.  
 XX  
 PR 14-APR-2000; 2000US-0197271P.  
 XX  
 PA (CORR ) CORNELL RES FOUND INC.  
 XX  
 PI Barany F, Zirvi M, Gerry NP, Favis R, Kliman R;  
 XX  
 DR WPI; 2002-034366/04.  
 XX  
 XX Designing capture oligonucleotide probes for use on a support to which  
 PT complementary oligonucleotides hybridize with little mismatch.  
 XX  
 PS Example 5; Fig 29; 300pp; English.  
 XX  
 CC The present invention describes a method (M1) for designing capture

CC oligonucleotide probes (I) for use on a support to which complementary  
 CC oligonucleotide probes (II) will hybridise with little mismatch, where  
 CC (I) have melting temperatures within a narrow range. The method is useful  
 CC for detecting infectious diseases caused by bacterial infectious agents  
 CC e.g. Salmonella, Listeria monocytogenes and Haemophilus influenza, fungal  
 CC infectious agents e.g. Cryptococcus neoformans, Candida albicans and  
 CC Aspergillus fumigatus, viruses e.g. T-cell lymphocytotropic virus,  
 CC Epstein-Barr virus and polio virus, and parasitic infectious agents  
 CC selected from Onchocerca volvulus, Entamoeba histolytica and Dracunculus  
 CC medinis. The method is also useful for detecting genetic diseases such  
 CC as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.  
 CC Detecting cancer involving oncogenes, tumour suppressor genes, or genes  
 CC involved in DNA amplification, replication, recombination or repair, the  
 CC cancer is specifically associated with a gene selected from BRCA1 gene,  
 CC p53 gene, human papillomavirus types 16 and 18 and liver cancers. The  
 CC method is also used for environmental monitoring, forensics and the food  
 CC and feed industry, detecting comprises scanning (using e.g. a scanning  
 CC electron microscope and infrared microscope) the support at the  
 CC particular sites and identifying if ligation of the oligonucleotide probe  
 CC sets occurred and correlating (using a computer) identified ligation to a  
 CC presence or absence of the target nucleotide sequences. ABI82074 to  
 CC ABI97546 represent oligonucleotide sequences used in the exemplification  
 CC of the present invention  
 CC  
 XX  
 SQ Sequence 20 BP; 2 A; 7 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 999 GCTCATCAACGAGCGGGA 1017  
 DB 19 GCTCATCAACGAGCGGGA 1

RESULT 1044  
 ABI93148/C  
 ID ABI93148 standard; DNA; 20 BP.  
 XX  
 AC ABI93148;  
 XX  
 DT 15-FEB-2002 (first entry)  
 XX  
 DE Capture oligonucleotide Zip ID#235 oligo #9.  
 XX  
 KW Human; K-ras; PCR primer; probe; capture probe; mutation detection;  
 KW ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease;  
 KW infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer;  
 KW oncogene; tumour suppressor; human papillomavirus; forensic;  
 KW environmental monitoring; food industry; feed industry; ss.  
 XX  
 OS Synthetic.  
 XX  
 FN WO200179548-A2.  
 XX  
 PD 25-OCT-2001.  
 XX  
 PF 04-APR-2001; 2001WO-US010958.  
 XX  
 PR 14-APR-2000; 2000US-0197271P.  
 XX  
 PA (CORR ) CORNELL RES FOUND INC.  
 XX  
 PI Barany F, Zirvi M, Gerry NP, Favis R, Kliman R;  
 XX  
 DR WPI; 2002-034366/04.  
 XX  
 XX Designing capture oligonucleotide probes for use on a support to which  
 PT complementary oligonucleotides hybridize with little mismatch.  
 XX  
 PS Example 5; Fig 29; 300pp; English.  
 XX  
 CC The present invention describes a method (M1) for designing capture

CC oligonucleotide probes (I) for use on a support to which complementary  
 CC oligonucleotide probes (II) will hybridise with little mismatch, where  
 CC (1) have melting temperatures within a narrow range. The method is useful  
 CC for detecting infectious diseases caused by bacterial infectious agents  
 CC e.g. Salmonella, Listeria monocytogenes and Haemophilus influenza, fungal  
 CC infectious agents e.g. Cryptococcus neoformans, Candida albicans and  
 CC Aspergillus fumigatus, viruses e.g. T-cell lymphocytotropic virus,  
 CC Epstein-Barr virus and polio virus, and parasitic infectious agents  
 CC selected from Onchocerca volvulus, Entamoeba histolytica and Dracunculus  
 CC medinensis. The method is also useful for detecting genetic diseases such  
 CC as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.  
 CC Detecting cancer involving oncogenes, tumour suppressor genes, or genes  
 CC involved in DNA amplification, replication, recombination or repair, the  
 CC cancer is specifically associated with a gene selected from BRCA1 gene,  
 CC p53 gene, human papillomavirus types 16 and 18 and liver cancers. The  
 CC method is also used for environmental monitoring, forensics and the food  
 CC and feed industry, detecting comprises scanning (using e.g. a scanning  
 CC electron microscope and infrared microscope) the support at the  
 CC particular sites and identifying if ligation of the oligonucleotide probe  
 CC sets occurred and correlating (using a computer) identified ligation to a  
 CC presence or absence of the target nucleotide sequences. ABI82074 to  
 CC ABI97546 represent oligonucleotide sequences used in the exemplification  
 CC of the present invention

XX  
 SQ Sequence 20 BP; 6 A; 6 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1121 TCGTTGGGTCCAGGACTA 1139  
 Db 19 TCGTTGGGTCCAGGACTA 1

## RESULT 1045

ABQ87695  
 ID ABQ87695 standard; DNA; 20 BP.

XX  
 AC ABQ87695;

DT 18-SEP-2002 (first entry)

DE Human ESR1 exon 1G reverse PCR primer.

XX Human; oestrogen; receptor; oestrogen receptor alpha; cytostatic;  
 KW osteopathic; cardiant; cancer; osteoporosis; cardiovascular disorder;  
 KW ESR-alpha; ESR1; PCR; primer; ss.

XX Homo sapiens.

OS WO200234945-A2.

PN

XX 02-MAY-2002.

XX 21-AUG-2001; 2001WO-US025990.

XX 20-OCT-2000; 2000US-00692414.

PR 24-JAN-2001; 2001US-00768184.

PR 13-MAR-2001; 2001US-00804076.

PR 05-APR-2001; 2001US-00826314.

XX (APPL-) APPLERA CORP.

PI Kalush F, Cassel MJ, Hwang SS, Winn-deen ES;

XX WPI; 2002-479722/51.

XX Peptide of estrogen receptor alpha genes variant or its fragment for use  
 PT in identifying modulators for treating disorders e.g. a susceptibility to  
 PT cancer, osteoporosis, cardiovascular disorder.

PS Example 1; Fig 2D; 352pp; English.

XX The invention relates to novel human oestrogen receptor variant peptides,  
 CC and the polynucleotides encoding them. The peptides of the invention have  
 CC cytostatic, osteopathic and cardiant activity. The peptides of the  
 CC invention are useful to mediate or modulate a variety of disorders such  
 CC as a susceptibility to cancer, osteoporosis, cardiovascular disorder,  
 CC etc, and hence are useful in the treatment of the disorders. The  
 CC sequences shown in ABQ87682-ABQ87719 represent PCR primers used in the  
 CC invention to amplify individual exons of the human oestrogen receptor  
 CC alpha (ESR-alpha or ESR1) gene

XX  
 SQ Sequence 20 BP; 2 A; 7 C; 4 G; 7 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 826 TCCCTCACCCCTTCTCTTG 844  
 Db 1 TCCACACAGCCTTCTCTTG 19

## RESULT 1046

ADG34600

ID ADG34600 standard; DNA; 20 BP.

XX  
 AC ADG34600;

DT 26-FEB-2004 (first entry)

DE Phosphorothioate oligonucleotide calreticulin inhibitor SEQ ID NO:66.

XX ss; human; antisense compound; calreticulin; cytosratic; cardiant;  
 KW virucide; osteopathic; antiparasitic; antisense gene therapy; melanoma;  
 KW viral warts; rubella; schistosomiasis; congenital heart block;  
 KW osteoporosis.

OS Synthetic.

XX WO200268688-A1.

XX 06-SEP-2002.

XX 30-OCT-2001; 2001WO-US048485.

XX 22-FEB-2001; 2001US-00791406.

XX (ISIS-) ISIS PHARM INC.

PA (BOEH) BOEHRINGER INGELHEIM PHARM INC.

XX Bennett CF, Rothlein R, Kishimoto TK, Cowsett LM;

XX WPI; 2002-750420/81.

XX New antisense compound that specifically hybridizes with and inhibits the  
 PT expression of human calreticulin, useful for treating diseases e.g.  
 PT osteoporosis or schistosomiasis.

XX Example 15; SEQ ID NO 66; 110pp; English.

XX The invention relates to a novel antisense compound, which is 8-10  
 CC nucleotides in length targeted to a nucleic acid molecule encoding human  
 CC calreticulin, and specifically hybridises with and inhibits the  
 CC expression of human calreticulin. A compound of the invention has  
 CC cytostatic, cardiant, virucide, osteopathic, and antiparasitic activity,  
 CC and may act as a calreticulin-inhibitor, and have a use in antisense gene  
 CC therapy. The antisense compound is useful for treating a disease or  
 CC condition associated with calreticulin e.g. melanoma, viral warts,  
 CC rubella, schistosomiasis, congenital heart block or osteoporosis.  
 CC Further, it is useful as prophylaxis, research reagent and diagnostic.  
 CC The present sequence is used in the exemplification of the invention. The  
 CC sequence is a phosphorothioate oligonucleotide, having 2'-MOE wings and a  
 CC deoxy gap.



```

XX SQ Sequence 20 BP; 2 A; 7 C; 6 G; 5 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 928 CAGCTGCTCCGTCGGCTGG 946
Db 2 CAGCTCGTCTTGGCCTGG 20

RESULT 1047
AD117613
ID AD117613 standard; DNA; 20 BP.
XX AC
XX AD117613;
XX DT
XX 15-APR-2004 (first entry)
XX Reverse PCR primer used to amplify human NOVX DNA SeqID1149.
XX DE
XX PCR; ss; NOVX; metabolic disorder; diabetes; anorexia; cancer;
XX KW cardiovascular; infectious; neurodegenerative; immune;
XX KW haematopoietic disease; dyslipidaemia; anorectic; virucide; nootropic;
XX KW antiinflammatory; neuroprotective; antilipaemic; anabolic; cardiant;
XX KW neurogenesis; wound healing; angiogenesis; chromosome mapping;
XX KW tissue typing; preventive medicine; pharmacogenomic; primer; human.
XX OS
XX Homo sapiens.
XX WO200268649-A2.
XX 06-SEP-2002.
XX 31-JAN-2002; 2002WO-US002785.
XX 31-JAN-2001; 2001US-0265395P.
XX 31-JAN-2001; 2001US-0265412P.
XX 31-JAN-2001; 2001US-0265514P.
XX 31-JAN-2001; 2001US-0265517P.
XX 02-FEB-2001; 2001US-0266406P.
XX 05-FEB-2001; 2001US-0266767P.
XX 07-FEB-2001; 2001US-0266975P.
XX 07-FEB-2001; 2001US-0267057P.
XX 07-FEB-2001; 2001US-0267459P.
XX 08-FEB-2001; 2001US-0267823P.
XX 15-FEB-2001; 2001US-0268974P.
XX 26-FEB-2001; 2001US-0271664P.
XX 27-FEB-2001; 2001US-0271839P.
XX 27-FEB-2001; 2001US-0271855P.
XX 02-MAR-2001; 2001US-0272788P.
XX 02-MAR-2001; 2001US-0273046P.
XX 14-MAR-2001; 2001US-0275925P.
XX 14-MAR-2001; 2001US-0275947P.
XX 14-MAR-2001; 2001US-0275950P.
XX 14-MAR-2001; 2001US-0275989P.
XX 15-MAR-2001; 2001US-0276448P.
XX 15-MAR-2001; 2001US-0276450P.
XX 16-MAR-2001; 2001US-0276397P.
XX 16-MAR-2001; 2001US-0276768P.
XX 20-MAR-2001; 2001US-0278652P.
XX 26-MAR-2001; 2001US-0278775P.
XX 26-MAR-2001; 2001US-0278778P.
XX 29-MAR-2001; 2001US-0279882P.
XX 29-MAR-2001; 2001US-0279884P.
XX 30-MAR-2001; 2001US-0280147P.
XX 11-APR-2001; 2001US-0282992P.
XX 11-APR-2001; 2001US-0283083P.
XX 20-APR-2001; 2001US-0285133P.
XX 23-APR-2001; 2001US-0285749P.
XX 03-MAY-2001; 2001US-0288327P.
XX 03-MAY-2001; 2001US-0288504P.

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PR 29-MAY-2001; 2001US-0294047P.
PR 30-MAY-2001; 2001US-0294473P.
PR 08-JUN-2001; 2001US-0296964P.
PR 18-JUN-2001; 2001US-0298959P.
PR 19-JUN-2001; 2001US-0299324P.
PR 13-AUG-2001; 2001US-0312020P.
PR 16-AUG-2001; 2001US-0312889P.
PR 16-AUG-2001; 2001US-0312908P.
PR 21-AUG-2001; 2001US-0313390P.
PR 28-AUG-2001; 2001US-0315470P.
PR 31-AUG-2001; 2001US-0316447P.
PR 07-SEP-2001; 2001US-0318115P.
PR 07-SEP-2001; 2001US-0318118P.
PR 12-SEP-2001; 2001US-0318740P.
PR 19-SEP-2001; 2001US-0323379P.
PR 18-OCT-2001; 2001US-0330245P.
PR 18-OCT-2001; 2001US-0330308P.
PR 14-NOV-2001; 2001US-0332701P.
XX
XX (CURA-) CURAGEN CORP.
XX Tchernev VT, Spytek KA, Zerhusen BD, Patturajan M, Shimkets RA;
XX Li L, Gangolli EA, Padigaru M, Anderson DW, Rastelli L, Miller CE;
XX Gerlach VL, Taupier RJ, Gusev VY, Colman SD, Wolenc AR, Pena CE;
XX Furtak K, Grosse WM, Alsobrook JP, Lepley DM, Rieger DK, Burgess CE;
XX WPI; 2002-706998/76.
XX New NOVX polypeptides and nucleic acids, useful for preventing or
XX treating NOVX-associated disorders, e.g. cancer, cardiomyopathy,
XX atherosclerosis, or diabetes, and in chromosome mapping, tissue typing or
XX pharmacogenomics.
XX Example 2; SEQ ID NO 1149; 1498pp; English.
XX
XX This invention relates to a novel nucleic acids, and encoded polypeptides
XX thereof, which have properties related to the stimulation of biochemical
XX or physiological responses in a cell, tissue, organ or organism.
XX Specifically, it refers to the use of biologically active fragments for
XX diagnostic and prognostic assays and furthermore in the treatment of
XX diverse pathological conditions. The present invention describes novel
XX human and murine NOVX proteins, as well as methods to modulate their
XX expression using antisense oligos, ribozymes and peptide nucleic acids.
XX The polypeptides, nucleic acid molecules and antibodies are useful in the
XX manufacture of a medicament for treating metabolic disorders, diabetes,
XX anorexia, cancer, cardiovascular, infectious, neurodegenerative, immune
XX and haematopoietic diseases as well as various dyslipidaemias.
XX Accordingly, these molecules have many activities including anorectic,
XX virucide, nootropic, antiinflammatory, neuroprotective, antilipaemic,
XX anabolic and cardiant. Furthermore, they are useful in screening assays
XX to identify small molecules that modulate or inhibit, for example,
XX neurogenesis, wound healing and angiogenesis. The nucleic acids are also
XX used as in chromosome mapping, tissue typing, preventive medicine and
XX pharmacogenomics. This oligonucleotide is a PCR primer used to amplify
XX human NOVX DNA of the invention.
XX
XX Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 506 AGGCTACCTGGAGAGCT 524
XX ||||| |||||
XX 2 AGGACCATCTGGAGAGCT 20
XX
XX RESULT 1048
XX ADA44788
XX ID ADA44788 standard; DNA; 20 BP.
XX XX
XX AC ADA44788;
XX XX

```

DT 20-NOV-2003 (first entry)  
 XX Antisense oligonucleotide #ISIS 115460 #SEQ ID 86.  
 DE XX  
 KW Antisense oligonucleotide; cytostatic; immunosuppressive;  
 KW antiinflammatory; gene therapy; hyperproliferative disorder; cancer;  
 KW autoimmune; inflammatory disorder; inhibitor-kappa B kinase-gamma; ss;  
 XX human.  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate linkages, all cytosines are 5-  
 FT methylcytosine"  
 FT modified\_base 1..5  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 XX WO2003031576-A2.  
 PN  
 XX  
 PD 17-APR-2003.  
 XX  
 PF 03-OCT-2002; 2002WO-US031809.  
 XX  
 PR 06-OCT-2001; 2001US-00972607.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Monia BP, Wyatt JR;  
 XX  
 DR WPI; 2003-457242/43.  
 XX  
 PT New compound having sequence targeted to nucleic acid encoding inhibitor-  
 PT kappa B kinase-gamma, useful for preparing composition for treating e.g.,  
 PT cancer, or inflammatory or autoimmune disorder.  
 XX  
 PS Claim 3; Page 78; 106pp; English.  
 XX  
 CC The invention relates to an antisense compound that is targeted to a  
 CC nucleic acid encoding inhibitor-kappa B kinase-gamma, specifically  
 CC hybridizing to the nucleic acid encoding inhibitor-kappa B kinase-gamma  
 CC and inhibiting its expression. Compounds of the invention are antisense  
 CC oligonucleotides comprising at least one modified internucleoside  
 CC linkage, which is a phosphorothioate linkage, at least one modified sugar  
 CC moiety, which is a 2'-O-methoxyethyl sugar moiety, or at least one  
 CC modified nucleobase, which is a 5-methylcytosine. Preferably, the  
 CC antisense oligonucleotide is a chimeric oligonucleotide. The compound of  
 CC the invention is useful for preparing a composition for treating a  
 CC hyperproliferative disorder e.g., cancer, or an autoimmune or  
 CC inflammatory disorder. The methods are useful for inhibiting the  
 CC expression of inhibitor-kappa B kinase-gamma in cells or tissues, and  
 CC treating an animal having a disease or condition associated with  
 CC inhibitor-kappa B kinase-gamma. Sequences given in ADA44713-ADA44790  
 CC represent antisense oligonucleotides for the inhibition of human  
 XX inhibitor-kappa B kinase-gamma mRNA levels.  
 SQ Sequence 20 BP; 3 A; 8 C; 8 G; 1 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 78 AGGGCCCCGGCGCTCTGAG 96  
 DB 1 AGGGCCCCGGCGCTCCGAG 19

RESULT 1049  
 ABT34198/c  
 ID ABT34198 standard; DNA; 20 BP.  
 XX  
 AC ABT34198;  
 XX  
 DT 12-JUN-2003 (first entry)  
 XX  
 DE Mouse short heterodimer partner-1 expression oligo SEQ ID No 73.  
 XX  
 KW Antiarteriosclerotic; cardiant; vasotropic; antiinfective; cytostatic;  
 KW antiinflammatory; inhibitor; antisense gene therapy; atherosclerosis;  
 KW short heterodimer partner-1; abnormal; lipid; cholesterol metabolism;  
 KW cardiovascular disease; infection; inflammation; tumour formation; mouse;  
 KW antisense; ds.  
 XX  
 OS Unidentified.  
 XX  
 XX WO2003012033-A2.  
 PN  
 XX 13-FEB-2003.  
 PD  
 XX  
 PF 17-JUL-2002; 2002WO-US023245.  
 XX  
 PR 31-JUL-2001; 2001US-00919197.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Crooke RM, Graham MJ;  
 XX  
 DR WPI; 2003-248161/24.  
 XX  
 PT New antisense oligonucleotide targeted to a nucleic acid encoding short  
 PT heterodimer partner-1, useful for treating diseases involving abnormal  
 PT lipid or cholesterol metabolism, e.g atherosclerosis or cardiovascular  
 PT diseases.  
 XX  
 PS Claim 3; Page 95; 121pp; English.  
 XX  
 CC The invention relates to a novel compound of 8 - 50 nucleobases in length  
 CC targeted to a nucleic acid molecule encoding a short heterodimer partner-  
 CC 1. The novel compound specifically hybridizes with a nucleic acid  
 CC molecule encoding the short heterodimer partner-1, and inhibits the  
 CC expression of the nucleic acid molecule. The compound, and a composition  
 CC comprising it are useful for treating a disease or condition associated  
 CC with the short heterodimer partner-1, particularly a condition involving  
 CC abnormal lipid or cholesterol metabolism such as atherosclerosis or a  
 CC cardiovascular disease. They are also useful in research and diagnostics  
 CC for modulating the expression of short heterodimer partner-1. They can  
 CC also be useful prophylactically in preventing or delaying infection,  
 CC inflammation or tumour formation. This polynucleotide sequence represents  
 CC a mouse antisense oligo relating to the heterodimer partner-1 of the  
 XX invention  
 SQ Sequence 20 BP; 9 A; 4 C; 7 G; 0 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1111 CTGACATCTGCTGGGT 1129  
 DB 20 CCTCTCTCTGCTGGGT 2  
 RESULT 1050  
 ACC49703/c  
 ID ACC49703 standard; DNA; 20 BP.  
 XX  
 AC ACC49703;  
 XX

```
DT 01-JUL-2003 (first entry)
XX Human KSR chimeric phosphorothioate oligonucleotide SEQ ID NO:73.
DE Human; kinase suppressor of ras-1; KSR; cytostatic; KSR inhibitor;
KW antisense gene therapy; hyperproliferative disorder; phosphorothioate;
KW developmental disorder; antisense oligonucleotide; ss.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "phosphorothioate backbone"
FT modified_base 1..5
FT /*tag= b
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls (2'-MOE)"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls (2'-MOE)"
XX
XX WO2003025144-A2.
XX
XX 27-MAR-2003.
XX
XX 19-SEP-2002; 2002WO-US029705.
XX
XX 20-SEP-2001; 2001US-00961001.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Monia BP, Freier SM;
XX
XX WPI; 2003-363140/34.
XX
XX New compounds, particularly antisense oligonucleotides targeted to a
XX nucleic acid encoding KSR, useful for treating a disease/condition
XX associated with KSR, such as hyperproliferative or developmental
XX disorders.
XX
XX Example 15; Page 75; 102pp; English.
XX
XX The present invention describes a compound 8-50 nucleobases in length
XX targeted to, and which specifically hybridises with a nucleic acid
XX molecule encoding kinase suppressor of ras-1 (KSR), and inhibits the
XX expression of KSR. Also described: (1) a compound 8-50 nucleobases in
XX length that specifically hybridises with at least an 8-nucleobase portion
XX of an active site on a nucleic acid molecule encoding KSR; (2) a
XX composition comprising the compound and a carrier or diluent; (3)
XX inhibiting the expression of KSR in cells or tissues by contacting the
XX cells or tissues with the compound so that expression of KSR is inhibited
XX ; and (4) treating an animal having a disease or condition associated
XX with KSR by administering to the animal a therapeutic or prophylactic
XX amount of the compound so that expression of KSR is inhibited. The
XX compound has cytostatic activity and can be used as a KSR inhibitor, and
XX in antisense gene therapy. The compound, composition and methods are
XX useful for treating a disease or condition associated with KSR, such as a
XX hyperproliferative or developmental disorder, or a disease or condition
XX arising from aberrant apoptosis by inhibiting the expression of KSR. They
XX are also useful in research and diagnostics for modulating the expression
XX of KSR. The present sequence represents a chimeric phosphorothioate
XX antisense oligonucleotide of human KSR, which is used in an example from
XX the present invention
XX
XX Sequence 20 BP; 2 A; 6 C; 7 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
```

```
Qy .366 GAGTGACCAAGGCTTCAGCC 384
Db ||| ||| ||| ||| ||| |||
19 GAGAGACCAAGGCTTCAGCC 1

RESULT 1051
ACC50005/C
ID ACC50005 standard; DNA; 20 BP.
XX
XX AC ACC50005;
XX
XX 14-JUL-2003 (first entry)
XX
XX Oligonucleotide primer ITS3.
XX
XX Mitochondria; fungal pathogen; PCR; primer; ss.
XX
XX Synthetic.
XX
XX WO2003027635-A2.
XX
XX 03-APR-2003.
XX
XX 19-SEP-2002; 2002WO-US030311.
XX
XX 24-SEP-2001; 2001US-00961755.
XX
XX (SYGN ) SYNGENTA PARTICIPATIONS AG.
XX
XX Beck JJ, Barnett CJ;
XX
XX WPI; 2003-363229/34.
XX
XX Detecting a fungal pathogen, useful for monitoring disease development,
XX comprises subjecting the DNA to PCR amplification using at least one
XX primer having sequence identity with at least 10 contiguous nucleotides
XX of Fusarium spp.
XX
XX Claim 6; Page 17; 44pp; English.
XX
XX This invention relates to the detection of a fungal pathogen comprising
XX isolating DNA from a plant leaf infected with a pathogen. The methods and
XX primers are useful for identifying fungal isolates of fungal pathogens
XX and monitoring of disease development in plant populations. The present
XX sequence represents an oligonucleotide primer used to detect Fusarium ear
XX rot pathogens
XX
XX Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 1549 CTTCGGTCTTCGTCGATGC 1567
Qy ||| ||| ||| ||| ||| |||
Db 19 CTTCGGTCTTCGTCGATGC 1

RESULT 1052
ACC50004
ID ACC50004 standard; DNA; 20 BP.
XX
XX AC ACC50004;
XX
XX 14-JUL-2003 (first entry)
XX
XX Oligonucleotide primer ITS2.
XX
XX Mitochondria; fungal pathogen; PCR; primer; ss.
XX
XX Synthetic.
XX
```

PN WO2003027635-A2.  
 XX  
 PD 03-APR-2003.  
 XX  
 PF 19-SEP-2002; 2002WO-US030311.  
 XX  
 PR 24-SEP-2001; 2001US-00961755.  
 XX  
 PA (SYGN ) SYNGENTA PARTICIPATIONS AG.  
 XX  
 PI Beck JJ, Barnett CJ;  
 XX  
 DR WPI; 2003-363229/34.  
 XX  
 PT Detecting a fungal pathogen, useful for monitoring disease development,  
 PT comprises subjecting the DNA to PCR amplification using at least one  
 PT primer having sequence identity with at least 10 contiguous nucleotides  
 PT of Fusarium spp.  
 XX  
 PS Claim 6; Page 17; 44pp; English.  
 XX  
 CC This invention relates to the detection of a fungal pathogen comprising  
 CC isolating DNA from a plant leaf infected with a pathogen. The methods and  
 CC primers are useful for identifying fungal isolates of fungal pathogens  
 CC and monitoring of disease development in plant populations. The present  
 CC sequence represents an oligonucleotide primer used to detect Fusarium ear  
 CC rot pathogens  
 XX  
 SQ Sequence 20 BP; 2 A; 6 C; 5 G; 7 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 XX  
 QY 1549 CTGCGTCTTCGTGATGC 1567  
 DB 2 CTGCGTCTTCGTGATGC 20  
 XX  
 RESULT 1053  
 ABV9905  
 ID ABV99905 standard; DNA; 20 BP.  
 XX  
 AC ABV99905;  
 XX  
 DT 21-FEB-2003 (first entry)  
 XX  
 DE Streptococcus thermophilus plasmid pMT1-related PCR primer #7.  
 XX  
 KW Plasmid pMT1; food; food additive; research reagent; drug; PCR; primer;  
 KW ss.  
 XX  
 OS Streptococcus thermophilus.  
 XX  
 PN JP2002253260-A.  
 XX  
 PD 10-SEP-2002.  
 XX  
 PF 02-MAR-2001; 2001JP-00059196.  
 XX  
 PR 02-MAR-2001; 2001JP-00059196.  
 XX  
 PA (MEIP ) MEIJI MILK PROD CO LTD.  
 XX  
 DR WPI; 2003-096538/09.  
 XX  
 PT A new plasmid of Streptococcus thermophilus and its derivatives, used to  
 PT make a transformant, a food, a food additive, a feed, a research reagent,  
 PT and a drug.  
 XX  
 PS Example 3; Page 19; 25pp; Japanese.  
 XX  
 CC The present invention relates to plasmid pMT1 derived from Streptococcus

CC thermophilus (ABV99998). The plasmid is useful for making a transformant  
 CC which is used for the preparation of foods, food additives, feeds,  
 CC research reagents or drugs. The present sequence is a PCR primer, which  
 CC was used in an example from the invention  
 XX  
 SQ Sequence 20 BP; 6 A; 5 C; 6 G; 3 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 XX  
 QY 208 GAGCAGATAGCGCTGGATG 226  
 DB 1 GAGCATATAGCGCTGGAG 19  
 XX  
 RESULT 1054  
 ABZ59526/C  
 ID ABZ59526 standard; DNA; 20 BP.  
 XX  
 AC ABZ59526;  
 XX  
 DT 17-APR-2003 (first entry)  
 XX  
 DE Mouse src-c chimeric phosphorothioate oligonucleotide SEQ ID NO:147.  
 XX  
 KW Mouse; src-c; tyrosine kinase; src-c inhibitor; cytostatic; osteopathic;  
 KW antiinflammatory; antibacterial; antisense therapy; vaccine; cancer;  
 KW antisense oligonucleotide; aberrant bone remodeling; breast cancer;  
 KW hyperproliferative disorder; pancreatic cancer; lung cancer; tumour;  
 KW ovarian cancer; oesophageal cancer; neuroblastoma; retinoblastoma;  
 KW Kaposi's sarcoma; infection; inflammation; tumour formation;  
 KW phosphorothioate; ss.  
 XX  
 OS Mus musculus.  
 OS Synthetic.  
 XX  
 PH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= b  
 FT /mod\_bases= OTHER  
 FT /note= "phosphorothioate linkages"  
 FT modified\_base 1..5  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-O-methoxyethyl gapmer (2'-MOE wing)"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_bases= OTHER  
 FT /note= "2'-O-methoxyethyl gapmer (2'-MOE wing)"  
 XX  
 PN WO200295053-A2.  
 XX  
 PD 28-NOV-2002.  
 XX  
 PF 16-MAY-2002; 2002WO-US015684.  
 XX  
 PR 18-MAY-2001; 2001US-00860473.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett FC, Watt AT;  
 XX  
 DR WPI; 2003-120806/11.  
 XX  
 PT New antisense oligonucleotides targeted to nucleic acids encoding src-c,  
 PT useful for diagnosing, treating or preventing diseases associated with  
 PT the expression of src-c, e.g. cancer or inflammation, and in research  
 PT applications.  
 XX  
 PS Claim 3; Page 92; 137pp; English.  
 XX  
 CC The present invention describes a compound (I) that is 8-50 nucleobases

CC in length targeted to a nucleic acid molecule encoding a 5'UTR, 3'UTR, coding region, intron region, exon region, stop codon, intron:exon  
CC junction, exon:exon junction, or 5' mRNA variant of src-c, and which  
CC specifically hybridizes with and inhibits the expression of src-c. (I)  
CC have cytoskeletal, antiinflammatory, osteopathic and antibacterial  
CC activities, and can be used in antisense therapy and in vaccines. The  
CC antisense compounds (I) can be used for modulating the expression of  
CC c and for treating diseases or conditions associated with expression of  
CC src-c, e.g. aberrant bone remodeling or hyperproliferative disorders,  
CC particularly cancer, such as breast cancer, pancreatic cancer, lung  
CC cancer, ovarian cancer, oesophageal cancer, neuroblastoma, retinoblastoma  
CC or Kaposi's sarcoma. (I) are also useful for diagnostics, therapeutics,  
CC prophylaxis, e.g. to prevent or delay infection, inflammation or tumour  
CC formation, as research reagents and kits, and in distinguishing between  
CC functions of various members of a biological pathway. The present  
CC sequence represents a mouse src-c antisense chimeric phosphorothioate  
CC oligonucleotide, which is used in an example from the present invention  
XX  
SQ Sequence 20 BP; 2 A; 5 C; 8 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1610 TCTAAGCCACAGCCGAGG 1628  
DB 20 TCCAGCCTCAGACCCAGG 2

RESULT 1055  
AD26668/c  
ID ADA26668 standard; DNA; 20 BP.  
XX ADA26668;  
XX  
XX 20-NOV-2003 (first entry)  
XX Rat Jun N-terminal kinase, JNK1, antisense oligonucleotide ISIS21867.  
DE ss; rat; Jun N-terminal kinase; JNK1; JNK2; JNK3; antisense; cytostatic;  
XX antiinflammatory; apoptosis; prostate cancer; prostate tumour;  
KW inflammation; fibrosis; fibrotic disease; fibrotic scarring;  
KW peritoneal adhesion; lung fibrosis; conjunctival scarring;  
KW hyperproliferative disease; cancer; probe.  
XX Rattus norvegicus.  
OS

Key Location/Qualifiers  
FH modified\_base 1..20  
FT /tag= b  
FT /mod\_base= OTHER  
FT /note= "All cytosines are 5-methyl-cytosines"  
FT modified\_base 1..5  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethoxy-modified and phosphorothioate linkages"  
FT modified\_base 16..20  
FT /tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethoxy-modified and phosphorothioate linkages"  
FT

US2003004120-A1.

XX  
XX  
XX 02-JAN-2003.  
XX  
XX 31-JAN-2001; 2001US-00774809.  
XX  
XX 13-AUG-1997; 97US-00910629.  
XX PR 07-AUG-1998; 98US-00130616.  
XX PR 07-APR-1999; 99US-00287796.  
XX PR 15-SEP-1999; 99US-00396902.

XX (MCKA/) MCKAY R.  
PA (DEAN/) DEAN N M.  
PA (MONI/) MONIA B P.  
PA (NERO/) NERO P.  
PA (GAAR/) GAARDE W A.  
XX McKay R, Dean NM, Monia BP, Nero P, Gaarde WA;  
PI WPI; 2003-311908/30.  
XX  
XX New oligonucleotides which hybridizes to, and modulates the expression of  
FT Jun N-terminal kinase, useful for treating a disease or condition  
PT characterized by a reduction in apoptosis, e.g. prostate cancer,  
PT inflammation or fibrosis.  
XX  
XX Example 7; Page 33; 69pp; English.  
XX  
XX The invention relates to an oligonucleotide (antisense, AS) comprising 8-  
CC 30 nucleotides connected by covalent linkages, where the oligonucleotide  
CC has a sequence specifically hybridisable with a nucleic acid encoding a  
CC Jun N-terminal kinase (JNK) protein and modulates the expression of the  
CC JNK protein. Also included are a pharmaceutical composition comprising  
CC the AS oligonucleotide (or its bioequivalent, and a pharmaceutical  
CC carrier), treating an animal having/suspected of having/prone to having a  
CC hyperproliferative disease (by administering to a prophylactic or  
CC therapeutic amount of the composition of the AS oligonucleotide),  
CC modulating the expression of a JNK protein in cells or tissues by  
CC contacting the cells or tissues with the AS oligonucleotide, modulating  
CC the cell cycle progression (or the phosphorylation of a protein  
CC phosphorylated by a JNK protein, or expression of a cellular protein that  
CC promotes one or more metastatic events in cultured cells or the cells of  
CC an animal) by administering the oligonucleotide to the cells, inhibiting  
CC the growth of a tumour in an animal by administering the oligonucleotide,  
CC inducing apoptosis in a cell by contacting a cell with an AS  
CC oligonucleotide for JNK2 and treating a human having a disease or  
CC condition associated with a JNK protein or characterised by a reduction  
CC in apoptosis by administering a prophylactic or therapeutic amount of the  
CC AS oligonucleotide. The antisense oligonucleotide is useful for treating  
CC a disease or condition characterised by a reduction in apoptosis, such as  
CC prostate cancer or prostate tumour, inflammation, fibrosis or fibrotic  
CC disease or condition (e.g. fibrotic scarring, peritoneal adhesions, lung  
CC fibrosis or conjunctival scarring), hyperproliferative disease or  
CC condition, such as cancer. The antisense oligonucleotides may also be  
CC used as research agents and diagnostic aids, to detect the presence of  
CC JNK protein-specific nucleic acids in a cell or tissue sample, and to  
CC study the function of one or more genes in the animal. The present  
CC sequence is an antisense oligonucleotide targeting a rat JNK sequence.  
XX  
XX Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1424 GGATCTCCGACGAGGATGC 1442  
DB 20 GGATCTCCGACGAGG 2

RESULT 1056  
AAD52299  
ID AAD52299 standard; DNA; 20 BP.  
XX  
XX AAD52299;  
XX  
XX 02-MAY-2003 (first entry)  
XX  
XX Human IFNGR2 antisense oligonucleotide, ISIS #142777.

XX Antisense; interferon gamma receptor 2; autoimmune disorder; cancer;  
KW autoimmune thyroiditis; autoimmune insulinitis; multiple sclerosis;  
KW diabetes; autoimmune arthritis; Crohn's disease; apoptosis; IFNGR2;

KX		Human; antisense; fibroblast growth factor receptor 3; prophylaxis;
XW		developmental disorder; hyperproliferative disorder; antisense therapy
KW		FGR-3; ACH; JTR4; CEK2; cancer; phosphorothioate; ss.
XX		
OS	Homo sapiens.	
OS	Synthetic.	
XX		
FH	Key	Location/Qualifiers
FT	modified_base	1..20
PT	/tag= a	
FT	/mod_base= OTHER	
FT	/note= "Phosphorothioate backbone; All cytidine residues are 5-methylcytidines"	
FT	modified_base	1..5
FT	/tag= b	
FT	/mod_base= OTHER	
FT	modified_base	16..20
FT	/tag= c	
FT	/mod_base= OTHER	
FT	/note= "2'-methoxyethyl (2'-MOE) nucleotides"	
XX		
PN	WO2003023004-A2.	
XX		
PD	20-MAR-2003 .	
XX		
PF	06-SEP-2002 ; 2002WO-US028549 .	
XX		
PR	10-SEP-2001 ; 2001US-00953047 .	
XX	(ISIS-) ISIS PHARM INC.	
PA	Monia BP , Wyatt JR ;	
XX		
PI	UPI ; 2003-313244 /30 .	
XX		
DR		
XX		
PT	Novel compound targeted to a nucleic acid molecule encoding fibroblast growth factor receptor 3, useful for inhibiting the expression of the receptor and for treating an animal having cancer or developmental disorder.	
PS	Claim 3 : Page 79 ; 120pp ; English .	
XX		
CC	The invention relates to antisense compounds targetted to a nucleic acid molecule encoding fibroblast growth factor (FGF) receptor 3 (also known as FGR-3, ACH, JTK4 and CER2) to inhibit its expression. Antisense compounds of the invention are useful for treating diseases or conditions associated with FGR-3 such as developmental disorders or hyperproliferative disorder, especially cancer of colorectal, bladder, bone, lung, cervical, breast or skin. They are useful as research reagents, therapeutics, prophylaxis kits and diagnostics, and as tools in differential and/or combinatorial analyses to elucidate expression patterns of a portion of the genes expressed within cells and tissues. They are also useful in antisense therapy. The present sequence is an antisense oligonucleotide targetted to human FGFR-3	
QQ	Sequence 20 BP ; 3 A ; 8 C ; 3 G ; 6 T ; 0 U ; 0 Other ;  Query Match                0.8% ; Score 14.2 ; DB 1 ; Length 20; Best Local Similarity     84.2% ; Pred. NO. 8.7e+02; Matches    16 ; Conservative      0 ; Mismatches    3 ; Indels          0 ; Gaps	
QY	335 ACGAGGACTTGAAGATGGG 353                   20 ACGGGTGCTACAGAAGTGGG 2	
Dd		
RESULT 1058		
AAL55617/c		
ID AAL55617 standard ; DNA ; 20 BP.		
XX		
AA	AAL55617 ;	

Tue Nov 2 13:39:09 2004

cardiovascular disorder; variant oestrogen receptor; ESR1 haplotype;  
ESR1 polymorphism detection; cytostatic; osteopathic; cardiant; PCR;  
primer; ss.

29-JUL-2003 (first entry)  
Fungal universal ITS3 PCR primer - used to amplify ITS2 region DNA.  
Fungal; ITS3; interspace 3 region; ss; fermentation process; lovastatin;  
exocellular pravastatin production; statin; HMG-CoA; primer; PCR;  
cholesterol synthesis; cholesterol-lowering drug;  
hydroxy-methylglutaryl coenzyme A reductase.

Fungi sp.  
EPI266967-A1.  
18-DEC-2002.  
15-JUN-2001; 2001EP-00114462.  
15-JUN-2001; 2001EP-00114462.  
(GNOS-) GNOSIS SRL.  
Benedetti A, Manzoni M, Michele M, Rollini M;  
WPI; 2003-423103/40.  
Fermentation useful for producing pravastatin involves pre-fermenting  
fungal strain in first nutrient medium, and then fermenting strain in  
second nutrient medium.

Disclosure; Page 10; 15pp; English.  
The invention relates to a novel fermentation process to be used in the  
production of exocellular pravastatin and lovastatin which comprises  
cultivating microorganisms from Aspergillus and Monascus species. Statins  
are fungal secondary metabolites which inhibit hydroxy-methylglutaryl  
coenzyme A (HMG-CoA) reductase, the first committed enzyme of cholesterol  
synthesis. Statins are therefore used as cholesterol-lowering drugs. The  
fermentation process facilitates the production of extracellular  
pravastatin, either in a cell-associated form or releasable into the  
culture broth, directly, as a secondary metabolite, in the fermentation  
culture medium. Those production processes currently in existence  
generate relatively low yields. In contrast, the process of the invention  
produces relatively high yields of pravastatin i.e. at least 500 mg/l  
using Aspergillus terreus and a very high yield i.e. 1 - 4 g/l using  
Monascus ruber. In addition, the process uses simple and complex carbon  
sources obtained from agricultural waste thereby reducing production  
costs. The current sequence is that of the fungal universal ITS3 PCR  
primer of the invention which was used to amplify the Aspergillus terreus  
(DSM 13596) ITS2 region DNA

Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

1549 CTTGGTCTTCGTCGATGC 1567  
19 CTTGGTCTTCGTCGATGC 1

RESULT 1059  
ABX33731  
ID ABX33731 standard; DNA; 20 BP.  
XX  
AC ABX33731;  
XX  
DT 10-FEB-2003 (first entry)  
XX  
DE PCR primer #14 for human oestrogen receptor alpha (ESR1) gene.  
XX Human; oestrogen receptor alpha; ESR1; cancer; osteoporosis;  
XX

Homo sapiens.  
US2002123095-A1.  
05-SEP-2002.  
21-AUG-2001; 2001US-00933267.  
20-OCT-1999; 99US-0160626P.  
22-FEB-2000; 2000US-0183756P.  
20-OCT-2000; 2000US-00692414.  
24-JAN-2001; 2001US-00768184.  
13-MAR-2001; 2001US-00804076.  
05-APR-2001; 2001US-00826314.  
(PEKE ) PE CORP NY.

Kalush F, Cassel MJ, Hwang SS, Winn-Deen ES;  
WPI; 2003-066793/06.  
Novel isolated estrogen receptor alpha variant peptide, useful in  
development of diagnostics and therapies for diseases or disorders  
mediated/modulated by the estrogen receptor, or as immunogens to raise  
antibodies.

Claim 1; Fig 2d; 186pp; English.  
The present invention relates to the sequencing of genomic DNA encoding  
human oestrogen receptor alpha (ESR1) protein. The gene encoding human  
ESR1 is located on chromosome 6. The invention provides the genomic  
structure of the ESR1 gene and novel single nucleotide polymorphisms  
(SNPs)/haplotypes in the genes. The polymorphisms/haplotypes can lead to  
a variety of disorders (such as cancer, osteoporosis, and cardiovascular  
disorders) that are mediated by a variant oestrogen receptor. The  
invention provides methods of detecting ESR1 polymorphisms/haplotypes in  
a sample, methods of determining a risk of having or developing a  
disorder mediated by a variant oestrogen receptor and methods for  
screening compounds useful for treating such disorders. ABX33718-ABX33755  
represent PCR primers for the human ESR1 gene

Sequence 20 BP; 2 A; 7 C; 4 G; 7 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

826 TCCCTCACCCCTGTCTTG 844  
1 TCCACACGCTGTCTTG 19

RESULT 1060  
ACC47147/c  
ID ACC47147 standard; DNA; 20 BP.  
XX  
AC ACC47147;  
XX  
DT 23-JUN-2003 (first entry)  
XX  
DE Nucleotide sequence of 5'-biotin-labeled universal capture probe ITS3-B.  
XX Dimorphic fungus; internal transcribed spacer-2; ITS2; fungal infection;  
XX probe; ss.  
XX Synthetic.  
XX WO2003027329-A1.  
XX

```

PD XX 03-APR-2003.
PF XX 25-SEP-2002; 2002WO-US030605.
XX XX
PR XX 26-SEP-2001; 2001US-0325241P.
XX XX
PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.
XX XX
PI Lindsley MD, Qin Z, Choi JS, Morrison CJ;
XX XX
DR WPI; 2003-354661/33.
XX XX
XX Detecting a dimorphic fungus, useful for diagnosing fungal infections,
PT comprises detecting the presence or absence of an internal transcribed
PT spacer-2 (ITS2) nucleic acid sequence of a dimorphic fungus within a
PT sample.
XX XX
PS Claim 5; Page 35; 7lpp; English.
XX XX
CC The invention relates to detecting a dimorphic fungus. The method
CC involves detecting the presence or absence of an internal transcribed
CC spacer-2 (ITS2) nucleic acid sequence of a dimorphic fungus within a
CC sample, where the presence of the ITS2 nucleic acid sequence indicates
CC the sample was contacted by the dimorphic fungus. The method is useful
CC for detecting or diagnosing fungal infections. The array is useful for
CC screening a sample for the presence of, or contamination by a dimorphic
CC fungus. The present sequence represents a 5'-biotin-labeled universal
CC capture probe, used for detecting a dimorphic fungus
XX XX
SQ Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1549 CTTCGGTCTCGTCGATGC 1567
DB 19 CTGGTCTTCATCGATGC 1
RESULT 1061
AAL62456/C
ID AAL62456 standard; DNA; 20 BP.
XX XX
AC AAL62456;
XX XX
DT 06-OCT-2003 (first entry)
XX XX
DE Human ABC transporter MHC I antisense oligonucleotide, ISIS 206637.
XX XX
KW ABC transporter; ABCT; major histocompatibility complex; MHC; cytostatic;
KW hyperproliferative; autoimmune disorder; antisense gene therapy;
KW inflammation; tumour formation; immunosuppressive; antimicrobial; human;
KW phosphorothioate backbone; antisense; ss.
XX XX
OS Homo sapiens.
OS Synthetic.
XX XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'methoxyethyl nucleotides"
XX XX
PN WO2003051309-A2.
XX XX
PD 26-JUN-2003.
XX XX
PF 12-DEC-2002; 2002WO-US040101.
XX XX
PR 17-DEC-2001; 2001US-00024369.
XX XX
PA (ISIS-) ISIS PHARM INC.
XX XX
PI Borchers AH, Ward DT, Freier SM;
XX XX
DR WPI; 2003-577305/54.
XX XX
PT New antisense compound that hybridizes and inhibits the nucleic acid
PT encoding ABC transporter major histocompatibility complex 1, for treating
PT diseases or conditions such as a hyperproliferative or autoimmune
PT disorder.
XX XX
PS Claim 3; Page 81; 112pp; English.
XX XX
CC The invention relates to a compound targetted to a nucleic acid molecule
CC encoding ABC transporter (ABCT) major histocompatibility complex (MHC) 1
CC where the compound specifically hybridises with the nucleic acid molecule
CC and inhibits expression of ATM or specifically hybridises with at least a
CC portion of an active site on the nucleic acid molecule. The invention is
CC useful for inhibiting the expression of ATM in cells or tissues. The
CC invention is useful for treating an animal with hyperproliferative or
CC autoimmune disorder. The invention is useful for diagnostics,
CC therapeutics, prophylaxis, as research reagents and kits, for
CC distinguishing functions of various members of a biological pathway and
CC in antisense gene therapy. The invention is also useful prophylactically
CC e.g., to prevent or delay infection, inflammation or tumour formation.
CC The present sequence is an antisense oligo targetted to human ABC
CC transporter MHC I DNA. This sequence is used to illustrate the method of
CC the invention
XX XX
SQ Sequence 20 BP; 3 A; 8 C; 6 G; 3 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1461 CCTCAGTCTCGGCGAGCGG 1479
DB 20 CCTCAGCCTGGTGGAGCAG 2
RESULT 1062
AAL60972/C
ID AAL60972 standard; DNA; 20 BP.
XX XX
AC AAL60972;
XX XX
DT 22-SEP-2003 (first entry)
XX XX
DE Human MyD88 antisense oligonucleotide, ISIS #190957.
XX XX
KW Antisense; human; myeloid differentiation primary response gene 88;
KW MyD88; Alzheimer's disease; neurodegenerative disease; schizophrenia;
KW gene therapy; Down's syndrome; phosphorothioate; ss.
XX XX
OS Homo sapiens.
OS Synthetic.
XX XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= a
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone; All cytidine residues
FT modified_base 1..5
FT /*tag= b

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FT      /mod_base= OTHER
FT      /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT      modified_base      16..20
FT      /*tag= c
FT      /mod_base= OTHER
FT      /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX WO2003046132-A2.
XX
XX 05-JUN-2003.
XX
XX 20-NOV-2002; 2002WO-US037411.
XX
XX 23-NOV-2001; 2001US-00021707.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Karras JG, Dobie K;
XX
XX WPI; 2003-505193/47.
XX
XX New antisense compound, having a sequence targeted to a nucleic acid
XX encoding MyD88, useful for preparing a composition for treating
XX neurodegenerative disease, e.g. Alzheimer's disease.
XX
XX Claim 3; Page 76; 106pp; English.
XX
XX The invention relates to antisense compounds targeted to a nucleic acid
XX encoding human MyD88 (myeloid differentiation primary response gene 88)
XX to inhibit its expression. Antisense compounds of the invention are
XX useful for preparing a composition for treating neurodegenerative disease
XX e.g. Alzheimer's disease, Down's syndrome or schizophrenia. The invention
XX is also useful in gene therapy. The present sequence is an antisense
XX oligonucleotide targeted to human MyD88 DNA
XX
XX Sequence 20 BP; 7 A; 6 C; 2 G; 5 T; 0 U; 0 Other;
XX
XX      Query Match      0.8%; Score 14.2; DB 1; Length 20;
XX      Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX      Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX      QY      836 TTGCTCTTTGAGTACTGGA 854
XX      Db      19 TGGACTTTGAGTACTGGA 1
XX
XX      RESULT 1063
XX      ADC36216
XX      ID ADC36216 standard; DNA; 20 BP.
XX
XX      AC      ADC36216;
XX
XX      DT      18-DEC-2003 (first entry)
XX
XX      Weed controller metabolism associated PCR primer SEQ ID NO:83.
XX
XX      weed controller metabolism; weed; herbicide; herbicide-resistant plant;
XX      agrochemical; ss; PCR; primer.
XX
XX      OS      Synthetic.
XX
XX      WO2003040370-A1.
XX
XX      PD      15-MAY-2003.
XX
XX      PF      17-OCT-2002; 2002WO-JP010789.
XX
XX      PR      19-OCT-2001; 2001JP-00321307.
XX      PR      07-JUN-2002; 2002JP-00167239.
XX
XX      PA      (SUMO ) SUMITOMO CHEM CO LTD.
XX
XX      Nakaajima H, Mukumoto F, Takaishi M;

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CC diagnosis of disease and determination of side effect to a medical agent.  
 CC The isolated human gene is also effective in detecting single nucleotide  
 CC polymorphisms in a human gene. This polynucleotide sequence represents  
 CC one of the PCR primers used in the single nucleotide polymorphism  
 CC detection method of the invention.

XX Sequence 20 BP; 7 A; 7 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1611 CTAAGCCACACCGAGGC 1629  
 ||||| |||||  
 DB 2 CTAAGCCACATCCCAAGC 20

RESULT 1067

ADPF0989  
 ID ADF90989 standard; DNA; 20 BP.

XX ADF90989;

DT 26-FEB-2004 (first entry)

DE Microorganism detection PCR primer, SEQ ID 72.

XX Detection; microorganism; PCR; primer; bacterium; fungus; protozoan;  
 KW virus; diarrhoea; food poisoning; ss.

XX Listeria monocytogenes.

XX JP2003164282-A.

PD 10-JUN-2003.

XX 29-NOV-2001; 2001JP-00365153.

XX 29-NOV-2001; 2001JP-00365153.

XX (RAKA-) RAKAN KK.

PA (GIFU-) GIFU DAIGAKUCHO.

XX WPI; 2003-793230/75.

XX Rapid, sensitive detection of specific or unspecified microbes causing  
 PT diarrhea and food poisoning, using primers which target universal and  
 PT specific genes, and amplifying by PCR under heat cycle conditions  
 PT suitable for many detections.

XX Disclosure; SEQ ID NO 72; 69pp; Japanese.

XX The present invention relates to a method for detecting microorganisms  
 CC using primers (ADPF0918-ADPF91145). The method is used for detecting  
 CC microorganisms (bacteria, fungi, protozoa, viruses) which cause diarrhoea  
 CC symptoms, and pathogenic microbe of food poisoning. The method can be  
 CC used to detect unspecified microbes, or specific pathogens, or for the  
 CC simultaneous detection of many kinds of microorganism.

XX Sequence 20 BP; 5 A; 6 C; 1 G; 8 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1503 TTCCATATTTCACCTAAAG 1521

||||| |||||  
 DB 2 TTCCATCTTCCACTAATG 20

RESULT 1068

ABZ93135  
 ID ABZ93135 standard; DNA; 20 BP.

XX

AC ABZ93135;

XX 17-OCT-2003 (first entry)

XX Human oligonucleotide sequence.

XX Human; antisense; lung dysfunction; nasal airway dysfunction;

KW antiinflammatory steroid; ubiqunone; antiinflammatory; antiallergic;

KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;

KW antisense gene therapy; respiratory; lung; adenosine sensitivity;

KW adenosine receptor; bronchodilation; lung; adenoconstriction; lung allergy;

KW lung inflammation; respiratory disease; ds.

XX Homo sapiens.

XX WO200285308-A2.

XX 31-OCT-2002.

XX 23-APR-2002; 2002WO-US013135.

XX 24-APR-2001; 2001US-0286137P.

XX (EPIG-) EPIGENESIS PHARM INC.

XX Myce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;

PI Miller S, Tang L, Shahabuddin S;

XX WPI; 2003-229219/22.

XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiqunone.

XX Disclosure; SEQ ID NO 8377; 872pp; English.

XX The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiqunone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of ubiqunone or  
 CC receptor, producing bronchodilation, increasing levels of ubiqunone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 20 BP; 8 A; 5 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1521 GGAGATTTCAGTCAAAAG 1539

||||| |||||  
 DB 1 GGAAATTCACCTTCAAAAG 19

RESULT 1069

ABZ85058/c  
 ID ABZ85058 standard; DNA; 20 BP.

XX AC ABZ85058;  
 XX DT 17-OCT-2003 (first entry)  
 XX DE Human oligonucleotide sequence.  
 XX DE  
 XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 XX OS Homo sapiens.  
 XX PN WO200285308-A2.  
 XX PD 31-OCT-2002.  
 XX PF 23-APR-2002; 2002WO-US013135.  
 XX PR 24-APR-2001; 2001US-0286137P.  
 XX PA (EPIG-) EPIGENESIS PHARM INC.  
 XX PI NYce JW, Li Y, Sandrasagra A, Katz E, Fabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX WPI; 2003-229219/22.  
 XX PT Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX PS Claim 15; SEQ ID NO 300; 872bp; English.  
 XX CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX SQ Sequence 20 BP; 2 A; 4 C; 7 G; 7 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 623 AGCTGACAACTGGGCGCA 641  
 DB 19 ACTGACAACTGGGCGCA 1  
 RESULT 1070  
 ABZ85420/c  
 ID ABZ85420 standard; DNA; 20 BP.

XX AC ABZ85420;  
 XX DT 17-OCT-2003 (first entry)  
 XX DE Human oligonucleotide sequence.  
 XX DE  
 XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 XX OS Homo sapiens.  
 XX PN WO200285308-A2.  
 XX PD 31-OCT-2002.  
 XX PF 23-APR-2002; 2002WO-US013135.  
 XX PR 24-APR-2001; 2001US-0286137P.  
 XX PA (EPIG-) EPIGENESIS PHARM INC.  
 XX PI NYce JW, Li Y, Sandrasagra A, Katz E, Fabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX WPI; 2003-229219/22.  
 XX PT Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX PS Claim 15; SEQ ID NO 662; 872bp; English.  
 XX CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX SQ Sequence 20 BP; 4 A; 7 C; 8 G; 1 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1029 GGCTGACCTTGGCTGGCC 1047  
 DB 19 GGCTGCTTGGCTGGCC 1  
 RESULT 1071  
 ABZ85267/c  
 ID ABZ85267 standard; DNA; 20 BP.

10017621-3sl.rng

Tue Nov 2 13:39:09 2004

```

XX AC ABZ84777;
XX AC
XX DT 17-OCT-2003 (first entry)
XX DE Human oligonucleotide sequence.
XX DE
XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;
XX KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
XX KW antiasthmatic; hypotensive; immunosuppressive; cytosstatic; gene therapy;
XX KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
XX KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
XX KW lung inflammation; respiratory disease; ds.
XX OS Homo sapiens.
XX FN WO200285308-A2.
XX XX
XX PD 31-OCT-2002.
XX PF 23-APR-2002; 2002WO-US013135.
XX PR 24-APR-2001; 2001US-0286137P.
XX XX
XX PA (EPITG-) EPIGENESIS PHARM INC.
XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
XX PI Miller S, Tang L, Shahabuddin S;
XX XX
XX DR WPI; 2003-229219/22.
XX PT
XX PT Pharmacological composition for treating ailments associated with impaired
XX PT respiration, has oligo(s) antisense to specific gene(s) or its
XX PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
XX PT ubiquinone.
XX PS Claim 15; SEQ ID NO 19; 872pp; English.
XX CC
XX CC The invention relates to a novel pharmaceutical composition, which has a
XX CC first active agent comprising an oligonucleotide antisense to the
XX CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
XX CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
XX CC junctions of genes encoding a polypeptide associated with lung and/or
XX CC nasal airway dysfunction and a second active agent comprising an
XX CC antiinflammatory steroid and ubiquinone. A composition of the invention
XX CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
XX CC immunosuppressive, and cytosstatic activity. The composition may have a
XX CC use in antisense gene therapy. The composition is useful for treating or
XX CC preventing a respiratory, lung or malignant disease or condition, also
XX CC for enhancing the prophylactic or therapeutic respiratory effect of an
XX CC antiinflammatory steroid in a subject, for reducing or depleting levels
XX CC of, or reducing sensitivity to adenosine, reducing levels of ubiquinone or
XX CC receptor, producing bronchodilation, increasing levels of bronchoconstriction,
XX CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
XX CC lung inflammation, lung allergies, or a respiratory disease or condition.
XX CC Note: The sequence data for this patent is not represented in the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences
XX SQ Sequence 20 BP; 5 A; 3 C; 7 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 993 GAACCTGCTCATCAACGAG 1011
XX Db |||||
XX 19 GAACCTGCTCATCTCCAG 1
XX
XX RESULT 1073
XX ABZ87947
XX ID ABZ87947 standard; DNA; 20 BP.

```

```
XX AC ABZ87947;
XX XX
XX DT 17-OCT-2003 (first entry)
XX XX
XX DE Human oligonucleotide sequence.
XX XX
XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;
XX KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
XX KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
XX KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
XX KW adenosine receptor; bronchodilation; lung; adenosine sensitivity;
XX KW lung inflammation; bronchodilation; bronchoconstriction; lung allergy;
XX XX
XX OS Homo sapiens.
XX XX
XX PN WO200285308-A2.
XX XX
XX PD 31-OCT-2002.
XX XX
XX PF 23-APR-2002; 2002WO-US013135.
XX XX
XX PR 24-APR-2001; 2001US-0286137P.
XX XX
XX PA (EPIG-) EPIGENESIS PHARM INC.
XX XX
XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
XX PI Miller S, Tang L, Shahabuddin S;
XX XX
XX DR WPI; 2003-229219/22.
XX XX
XX PS Pharmaceutical composition for treating ailments associated with impaired
XX PT respiration, has oligo(s) antisense to specific gene(s) or its
XX PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
XX PT ubiquinone.
XX XX
XX PS Disclosure; SEQ ID NO 3189; 872pp; English.
XX XX
XX CC The invention relates to a novel pharmaceutical composition, which has a
XX CC first active agent comprising an oligonucleotide antisense to the
XX CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
XX CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
XX CC junctions of genes encoding a polypeptide associated with lung and/or
XX CC nasal airway dysfunction and a second active agent comprising an
XX CC antiinflammatory steroid and ubiquinone. A composition of the invention
XX CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
XX CC immunosuppressive, and cytostatic activity. The composition may have a
XX CC use in antisense gene therapy. The composition is useful for treating or
XX CC preventing a respiratory, lung or malignant disease or condition, also
XX CC for enhancing the prophylactic or therapeutic respiratory effect of an
XX CC antiinflammatory steroid in a subject, for reducing or depleting levels
XX CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
XX CC receptor, producing bronchodilation, increasing levels of adenosine
XX CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
XX CC lung inflammation, lung allergies, or a respiratory disease or condition.
XX CC Note: The sequence data for this patent is not represented in the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences
XX XX
XX SQ Sequence 20 BP; 10 A; 2 C; 7 G; 1 T; 0 U; 0 Other;
XX XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX XX
XX QY 1008 CGAGAGGGGAGAGCTCAAG 1026
XX Db ||||| ||||| ||||| |||||
XX 1 CGAGAGAGAGAGATCAAG 19
XX XX
XX RESULT 1074
XX ABZ87022/c
XX ID ABZ87022 standard; DNA; 20 BP.
```

```
XX ABZ87022;
XX AC
XX XX
XX DT 17-OCT-2003 (first entry)
XX XX
XX DE Human oligonucleotide sequence.
XX XX
XX KW Human; antisense; lung dysfunction; nasal airway dysfunction;
XX KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
XX KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
XX KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
XX KW adenosine receptor; bronchodilation; lung; adenosine sensitivity;
XX KW lung inflammation; bronchodilation; bronchoconstriction; lung allergy;
XX XX
XX OS Homo sapiens.
XX XX
XX PN WO200285308-A2.
XX XX
XX PD 31-OCT-2002.
XX XX
XX PF 23-APR-2002; 2002WO-US013135.
XX XX
XX PR 24-APR-2001; 2001US-0286137P.
XX XX
XX PA (EPIG-) EPIGENESIS PHARM INC.
XX XX
XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
XX PI Miller S, Tang L, Shahabuddin S;
XX XX
XX DR WPI; 2003-229219/22.
XX XX
XX PS Pharmaceutical composition for treating ailments associated with impaired
XX PT respiration, has oligo(s) antisense to specific gene(s) or its
XX PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
XX PT ubiquinone.
XX XX
XX PS Claim 15; SEQ ID NO 2264; 872pp; English.
XX XX
XX CC The invention relates to a novel pharmaceutical composition, which has a
XX CC first active agent comprising an oligonucleotide antisense to the
XX CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
XX CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
XX CC junctions of genes encoding a polypeptide associated with lung and/or
XX CC nasal airway dysfunction and a second active agent comprising an
XX CC antiinflammatory steroid and ubiquinone. A composition of the invention
XX CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
XX CC immunosuppressive, and cytostatic activity. The composition may have a
XX CC use in antisense gene therapy. The composition is useful for treating or
XX CC preventing a respiratory, lung or malignant disease or condition, also
XX CC for enhancing the prophylactic or therapeutic respiratory effect of an
XX CC antiinflammatory steroid in a subject, for reducing or depleting levels
XX CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
XX CC receptor, producing bronchodilation, increasing levels of adenosine
XX CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
XX CC lung inflammation, lung allergies, or a respiratory disease or condition.
XX CC Note: The sequence data for this patent is not represented in the printed
XX CC specification, but was obtained in electronic format directly from WIPO
XX CC at ftp.wipo.int/pub/published_pct_sequences
XX XX
XX SQ Sequence 20 BP; 7 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX XX
XX QY 1394 CCAAGCTGTTCAGTTTGA 1412
XX Db ||||| ||||| ||||| |||||
XX 19 CCAAGCTGATGTTACTTTGA 1
XX XX
XX RESULT 1075
XX ABZ88149/c
XX ID ABZ88149 standard; DNA; 20 BP.
```

XX AC ABZ88149;  
 XX DT 17-OCT-2003 (first entry)  
 XX DE Human oligonucleotide sequence.  
 XX DE Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 XX OS Homo sapiens.  
 XX PN WO200285308-A2.  
 XX PD 31-OCT-2002.  
 XX PF 23-APR-2002; 2002WO-US013135.  
 XX PR 24-APR-2001; 2001US-0286137P.  
 XX PA (EPITG-) EPIGENESIS PHARM INC.  
 XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX WPI; 2003-229219/22.  
 XX XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX PS Disclosure; SEQ ID NO 3391; 872pp; English.  
 XX CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of ubiquinone or  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX SQ Sequence 20 BP; 3 A; 3 C; 8 G; 6 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Qy 994 AACCTGCTCATCAGCAGA 1012  
 Db 19 ACCCTGCTCATCAGCAGA 1  
 RESULT 1076  
 ABZ87509/c  
 ID ABZ87509 standard; DNA; 20 BP.

XX AC ABZ87509;  
 XX DT 17-OCT-2003 (first entry)  
 XX DE Human oligonucleotide sequence.  
 XX DE Human; antisense; lung dysfunction; nasal airway dysfunction;  
 KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;  
 KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
 KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
 KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;  
 KW lung inflammation; respiratory disease; ds.  
 XX OS Homo sapiens.  
 XX PN WO200285308-A2.  
 XX PD 31-OCT-2002.  
 XX PF 23-APR-2002; 2002WO-US013135.  
 XX PR 24-APR-2001; 2001US-0286137P.  
 XX PA (EPITG-) EPIGENESIS PHARM INC.  
 XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX WPI; 2003-229219/22.  
 XX XX Pharmaceutical composition for treating ailments associated with impaired  
 PT respiration, has oligo(s) antisense to specific gene(s) or its  
 PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
 PT ubiquinone.  
 XX PS Disclosure; SEQ ID NO 2751; 872pp; English.  
 XX CC The invention relates to a novel pharmaceutical composition, which has a  
 CC first active agent comprising an oligonucleotide antisense to the  
 CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
 CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
 CC junctions of genes encoding a polypeptide associated with lung and/or  
 CC nasal airway dysfunction and a second active agent comprising an  
 CC antiinflammatory steroid and ubiquinone. A composition of the invention  
 CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,  
 CC immunosuppressive, and cytostatic activity. The composition may have a  
 CC use in antisense gene therapy. The composition is useful for treating or  
 CC preventing a respiratory, lung or malignant disease or condition, also  
 CC for enhancing the prophylactic or therapeutic respiratory effect of an  
 CC antiinflammatory steroid in a subject, for reducing or depleting levels  
 CC of, or reducing sensitivity to adenosine, reducing levels of ubiquinone or  
 CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
 CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
 CC lung inflammation, lung allergies, or a respiratory disease or condition.  
 CC Note: The sequence data for this patent is not represented in the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequences  
 XX SQ Sequence 20 BP; 2 A; 6 C; 2 G; 10 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Qy 715 CTGGAACATGAAGAGGGG 733  
 Db 20 CTGGAACATGAAGAGAG 2  
 RESULT 1077  
 ABV77015/c  
 ID ABV77015 standard; DNA; 20 BP.

```

XX AC ABV77015;
XX DT 03-MAR-2003 (first entry)
XX DE
XX DE Primer ITS3 used to amplify fungal nuclear rDNA ITS region.
XX KW Internal transcribed spacer region; ITS region; fungal pathogen;
XX KW Colletotrichum acutatum; Alternaria; Cladosporium carpophilum; PCR;
XX KW primer; ss.
XX OS Synthetic.
XX OS WO200277293-A2.
XX FN
XX PD 03-OCT-2002.
XX PD
XX PF 08-MAR-2002; 2002WO-EP002581.
XX PR
XX PR 09-MAR-2001; 2001US-0274540P.
XX PR 24-AUG-2001; 2001US-00939379.
XX PA (SYGN ) SYNGENTA PARTICIPATIONS AG.
XX PI Beck JJ, Barnett CJ, Perry CV;
XX DR WPI; 2003-092859/08.
XX
XX PT New internal transcribed spacer-derived oligonucleotide primer useful for
XX PT detecting fungal pathogens such as Colletotrichum acutatum, Alternaria
XX PT spp. or Cladosporium carpophilum.
XX PS Example 6; Page 20; 51pp; English.
XX
XX CC PCR primers ABV77013-16 represent conserved primers designed for
XX CC amplification of the fungal nuclear ribosomal RNA internal transcribed
XX CC spacer (ITS) region. The primers are useful for detecting a fungal
XX CC pathogen such as Colletotrichum acutatum, Alternaria spp. or Cladosporium
XX CC carpophilum. The primers are useful for detecting specific isolates of
XX CC fungal pathogens and for monitoring disease development in plant
XX CC populations, for assessing potential damage in a specific crop
XX CC variety/pathogen strain relationship, for providing detailed information
XX CC on the development and spread of specific pathogen races over extended
XX CC geographical areas, and for detecting diseases with long latent phase
XX SQ Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
XX
XX CC PCR primers ABV77013-16 represent conserved primers designed for
XX CC amplification of the fungal nuclear ribosomal RNA internal transcribed
XX CC spacer (ITS) region. The primers are useful for detecting a fungal
XX CC pathogen such as Colletotrichum acutatum, Alternaria spp. or Cladosporium
XX CC carpophilum. The primers are useful for detecting specific isolates of
XX CC fungal pathogens and for monitoring disease development in plant
XX CC populations, for assessing potential damage in a specific crop
XX CC variety/pathogen strain relationship, for providing detailed information
XX CC on the development and spread of specific pathogen races over extended
XX CC geographical areas, and for detecting diseases with long latent phase
XX SQ Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
QY 1549 CTTCGGTCTTCGTCGATGC 1567
Db 19 CTGCGTCTTCATCGATGC 1

RESULT 1078
ABV77014
ID ABV77014 standard; DNA; 20 BP.
XX AC
XX AC ABV77014;
XX DT
XX DT 03-MAR-2003 (first entry)
XX DE
XX DE Primer ITS2 used to amplify fungal nuclear rDNA ITS region.
XX KW Internal transcribed spacer region; ITS region; fungal pathogen;
XX KW Colletotrichum acutatum; Alternaria; Cladosporium carpophilum; PCR;
XX KW primer; ss.
XX OS Synthetic.
XX OS WO200277293-A2.
XX PN

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XX PD 03-OCT-2002.
XX PF 08-MAR-2002; 2002WO-EP002581.
XX PR
XX PR 09-MAR-2001; 2001US-0274540P.
XX PR 24-AUG-2001; 2001US-00939379.
XX PA (SYGN ) SYNGENTA PARTICIPATIONS AG.
XX PI Beck JJ, Barnett CJ, Perry CV;
XX DR WPI; 2003-092859/08.
XX
XX PT New internal transcribed spacer-derived oligonucleotide primer useful for
XX PT detecting fungal pathogens such as Colletotrichum acutatum, Alternaria
XX PT spp. or Cladosporium carpophilum.
XX PS Example 6; Page 20; 51pp; English.
XX
XX CC PCR primers ABV77013-16 represent conserved primers designed for
XX CC amplification of the fungal nuclear ribosomal RNA internal transcribed
XX CC spacer (ITS) region. The primers are useful for detecting a fungal
XX CC pathogen such as Colletotrichum acutatum, Alternaria spp. or Cladosporium
XX CC carpophilum. The primers are useful for detecting specific isolates of
XX CC fungal pathogens and for monitoring disease development in plant
XX CC populations, for assessing potential damage in a specific crop
XX CC variety/pathogen strain relationship, for providing detailed information
XX CC on the development and spread of specific pathogen races over extended
XX CC geographical areas, and for detecting diseases with long latent phase
XX SQ Sequence 20 BP; 2 A; 6 C; 5 G; 7 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
QY 1549 CTTCGGTCTTCGTCGATGC 1567
Db 2 CTGCGTCTTCATCGATGC 20

RESULT 1079
ACA61050
ID ACA61050 standard; DNA; 20 BP.
XX AC
XX AC ACA61050;
XX DT
XX DT 14-JUL-2003 (first entry)
XX DE
XX DE Guignardia internal transcribed spacer (ITS) reverse primer #2.
XX KW Guignardia; pathogen; internal transcribed spacer; ITS; citrus fruit;
XX KW intergenic sequence; intronic sequence; calmodulin; chitin synthase;
XX KW citrus blackspot; PCR; primer; ss.
XX OS Guignardia sp.
XX OS WO2003031933-A2.
XX PN
XX PN 17-APR-2003.
XX PD
XX PD 09-OCT-2002; 2002WO-US032227.
XX PF
XX PF 09-OCT-2001; 2001US-0327982P.
XX PR
XX PR (UYOR-) UNIV OREGON.
XX PA
XX PA Carroll GC;
XX PI
XX PI WPI; 2003-372133/35.
XX DR
XX DR Differentiating pathogenic and non-pathogenic Guignardia sp., by
XX PT

```



PT assessing hybridization between DNA from Guignardia- infected citrus and  
 PT probes based on intronic sequences from calmodulin and chitin synthase  
 PT genes.

XX Example 1; Page 19; 37pp; English.

XX The invention describes a method of differentiating pathogenic and non-  
 CC pathogenic species of Guignardia (I). The method comprises obtaining a  
 CC DNA sample from a citrus fruit infected with (I), immobilising the DNA,  
 CC probing the immobilised DNA with a probe based on intergenic sequences  
 CC and intronic sequences from within the calmodulin and chitin synthase  
 CC genes, and demonstrating hybridisation with the probes to represent the  
 CC pathogenic species and non-pathogenic species. The method is specific.  
 CC rapid and useful for differentiating pathogenic species (e.g. Guignardia  
 CC citricarpa, the causative agent of citrus blackspot) from non-pathogenic  
 CC species of Guignardia. This sequence represents a primer used to isolate  
 CC an internal transcribed spacer to allow characterisation of pathogenic  
 CC Guignardia

XX SQ Sequence 20 BP; 2 A; 6 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1549 CTTCGGTCTTCGTCGATGC 1567  
 |||||  
 Db 2 CTGCGTCTTCATCGATGC 20

RESULT 1080

ACA61051/c

ID ACA61051 standard; DNA; 20 BP.

XX ACA61051;

AC ACA61051;

XX 14-JUL-2003 (first entry)

XX Guignardia internal transcribed spacer (ITS) forward primer #3.

XX Guignardia; pathogen; internal transcribed spacer; ITS; citrus fruit;  
 KW intergenic sequence; intronic sequence; calmodulin; chitin synthase;  
 KW citrus blackspot; PCR; primer; ss.

XX Guignardia sp.

XX WO2003031933-A2.

XX 17-APR-2003.

XX 09-OCT-2002; 2002WO-US032227.

XX 09-OCT-2001; 2001US-0327982P.

XX (UYOR-) UNIV OREGON.

XX Carroll GC;

XX WPI; 2003-372133/35.

XX Differentiating pathogenic and non-pathogenic Guignardia sp., by  
 PT assessing hybridization between DNA from Guignardia- infected citrus and  
 PT probes based on intronic sequences from calmodulin and chitin synthase  
 PT genes.

XX Example 1; Page 20; 37pp; English.

XX The invention describes a method of differentiating pathogenic and non-  
 CC pathogenic species of Guignardia (I). The method comprises obtaining a  
 CC DNA sample from a citrus fruit infected with (I), immobilising the DNA,  
 CC probing the immobilised DNA with a probe based on intergenic sequences  
 CC and intronic sequences from within the calmodulin and chitin synthase  
 CC genes, and demonstrating hybridisation with the probes to represent the

CC pathogenic species and non-pathogenic species. The method is specific,  
 CC rapid and useful for differentiating pathogenic species (e.g. Guignardia  
 CC citricarpa, the causative agent of citrus blackspot) from non-pathogenic  
 CC species of Guignardia. This sequence represents a primer used to isolate  
 CC an internal transcribed spacer to allow characterisation of pathogenic  
 CC Guignardia

XX SQ Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1549 CTTCGGTCTTCGTCGATGC 1567

Db 19 CTGCGTCTTCATCGATGC 1

RESULT 1081

ABZ21316/c

ID ABZ21316 standard; DNA; 20 BP.

XX ABZ21316;

XX 24-FEB-2003 (first entry)

XX PCR primer for the isolation of peptide Vc1.1 #SEQ ID 5.

XX Alpha-conotoxin; cerebroprotective; analgesic; anticonvulsant;  
 KW neuroleptic; antiparkinsonian; cytostatic; neurotropic; neuroprotective;  
 KW neuronal nicotinic acetylcholine receptor; nAChR; inhibitor; stroke;  
 KW pain; cancer related pain; post-surgical pain; oral pain;  
 KW referred trigeminal neuralgia; post-herpetic neuralgia;  
 KW phantom limb pain; fibromyalgia; reflex sympathetic dystrophy;  
 KW rheumatoid arthritis; inflammatory arthritis; neurogenic pain;  
 KW neuropathic pain; epilepsy; nicotine addiction; schizophrenia;  
 KW Parkinson's disease; small cell lung carcinoma; Alzheimer's disease;  
 KW nerve injury; PCR; primer; ss.

XX Conus victorinae.

XX WO200279236-A1.

XX 10-OCT-2002.

XX 28-MAR-2002; 2002WO-AU000411.

XX 29-MAR-2001; 2001AU-00004094.

XX (LIVE/) LIVETT B.

XX (KHAL/) KHALIL Z.

XX (GAYL/) GAYLER K.

XX (DOWN/) DOWN J.

XX Livett B, Khalil Z, Gayler K, Down J;  
 WPI; 2003-103260/09.

XX New alpha- conotoxin-like peptides that inhibit the activity of neuronal  
 PT nicotinic acetylcholine receptor, useful for treating stroke, pain,  
 PT schizophrenia, Parkinson's disease, small cell lung carcinoma or  
 PT Alzheimer's disease.

XX Claim 18; Page 31; 87pp; English.

XX The invention relates to an isolated alpha-conotoxin-like peptide  
 CC sequence. The activity of peptides of the invention may be described as  
 CC cerebroprotective, analgesic, anticonvulsant, neuroleptic,  
 CC antiparkinsonian, cytostatic, neurotropic and neuroprotective. Peptides of  
 CC the invention are neuronal nicotinic acetylcholine receptor (nAChR)  
 CC inhibitors. The alpha-conotoxin-like peptide is useful for treating a  
 CC condition mediated by a neuronal nicotinic acetylcholine receptor, e.g.  
 CC stroke, pain (e.g. cancer related pain, post-surgical pain, oral or

CC dental pain, referred trigeminal neuralgia, post-herpetic neuralgia,  
 CC phantom limb pain, fibromyalgia, reflex sympathetic dystrophy, pain  
 CC associated with inflammatory conditions, rheumatoid arthritis or  
 CC inflammatory arthritis, or pain resulting from conditions associated with  
 CC neurogenic or neuropathic pain), epilepsy, nicotine addiction, or  
 CC schizophrenia, Parkinson's disease, small cell lung carcinoma, or  
 CC Alzheimer's disease. The alpha-conotoxin-like peptide is also useful for  
 CC accelerating recovery from nerve injury. The peptides are also useful as  
 CC research reagents for investigating nicotinic acetylcholine receptor  
 CC physiology and pharmacology. The current sequence represents a PCR primer  
 CC for the isolation of peptide Vcl.1  
 XX  
 SQ Sequence 20 BP; 4 A; 2 C; 8 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 889 AACATCATCAACATGCACA 907  
 ||||| ||||| ||||| ||||| |||||  
 Db 20 AACATCATCCGATGCCCA 2

RESULT 1082  
 ADK66856/c  
 ID ADK66856 standard; DNA; 20 BP.

XX AC ADK66856;

XX 06-MAY-2004 (first entry)

XX Mouse VH alpha TAG DNA specific primer, B72.3/CC92 HC.

XX Heavy chain variable region; VH;  
 KW tumour-associated sialylated glycoprotein antigen; TAG-72; therapy;  
 KW cancer; diagnosis; gene therapy; cytostatic; mouse; VH alpha TAG DNA;  
 KW primer; ss.  
 XX

OS Mus musculus.

PN US6641999-B1.

PD 04-NOV-2003.

XX 14-FEB-2000; 2000US-00503653.

XX 19-OCT-1988; 88US-00259943.

XX 24-OCT-1988; 88US-00261942.

XX 19-OCT-1989; 89US-00424362.

XX 31-MAR-1993; 93US-00040687.

XX 24-MAR-1997; 97US-00823105.

XX (DOWC ) DOW CHEM CO.

XX Mezes PS, Gourlie B, Rixon MW, Anderson WHK;

XX WPI; 2003-851359/79.

XX Finding polynucleotide encoding an antibody against tumor-associated

XX glycoprotein antigen-72 (TAG-72), for treating cancer, by providing a

XX test medium with murine anti-TAG-72 heavy variable region-encoding

XX polynucleotide.

XX Example; SEQ ID NO 44; 120pp; English.

XX The present invention relates to a method of finding at least one murine

XX heavy chain variable region (VH)-encoding polynucleotide encoding at

XX least the VH of an antibody having binding specificity for tumour-

XX associated sialylated glycoprotein antigen (TAG-72). The method involves

XX providing at least one test medium containing at least one murine anti-

CC polynucleotide encoding at least the VH of an antibody having binding  
 CC specificity for TAG-72. The antibodies against TAG-72 and compositions  
 CC are useful in treating cancer, in in vivo diagnostic assays, in vivo  
 CC therapy or radioimmunoguided surgery. The invention is also useful in  
 CC gene therapy. The present sequence is mouse VH alpha TAG DNA specific  
 CC primer used in the exemplification of the invention.  
 XX

SQ Sequence 20 BP; 4 A; 6 C; 2 G; 8 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1293 GTCCACGAGGAGTTCAG 1311

||||| ||||| ||||| ||||| |||||  
 Db 20 GTACATGAGAGTTCAG 2

RESULT 1083

ADK66836/c

ID ADK66836 standard; DNA; 20 BP.

XX AC ADK66836;

XX 06-MAY-2004 (first entry)

XX Mouse B72.3/CC92 antibody heavy chain DNA specific primer.

XX Heavy chain variable region; VH;

KW tumour-associated sialylated glycoprotein antigen; TAG-72; therapy;

KW cancer; diagnosis; gene therapy; cytostatic; mouse; primer; ss.

XX Mus musculus.

PN US6641999-B1.

XX 04-NOV-2003.

XX 14-FEB-2000; 2000US-00503653.

XX 19-OCT-1988; 88US-00259943.

XX 24-OCT-1988; 88US-00261942.

XX 19-OCT-1989; 89US-00424362.

XX 31-MAR-1993; 93US-00040687.

XX 24-MAR-1997; 97US-00823105.

XX (DOWC ) DOW CHEM CO.

XX Mezes PS, Gourlie B, Rixon MW, Anderson WHK;

XX WPI; 2003-851359/79.

XX Finding polynucleotide encoding an antibody against tumor-associated

XX glycoprotein antigen-72 (TAG-72), for treating cancer, by providing a

XX test medium with murine anti-TAG-72 heavy variable region-encoding

XX polynucleotide.

XX Example; SEQ ID NO 24; 120pp; English.

XX The present invention relates to a method of finding at least one murine

XX heavy chain variable region (VH)-encoding polynucleotide encoding at

XX least the VH of an antibody having binding specificity for tumour-

XX associated sialylated glycoprotein antigen (TAG-72). The method involves

XX providing at least one test medium containing at least one murine anti-

XX TAG-72 VH-encoding polynucleotide comprising at least one 5'-non-

XX translated region (5'-NTR) of a murine anti-TAG-72 VH-encoding gene. The

CC reduce the amount of target polypeptide present in the lungs. The  
CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
CC inflammation, allergies and/or surfactant hypoproduction are associated  
CC with a disease or condition such as pulmonary vasoconstriction.  
CC inflammation, allergies, asthma, impeded respiration, respiratory  
CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
CC The reduced adenosine content of the anti-sense oligos corresponding to  
CC thymidines present in the target RNA serves to prevent the breakdown of  
CC the oligonucleotides into products that free adenosine into the system  
CC e.g., lung, brain, heart, kidney, etc., tissue environment and thereby, to  
CC prevent any unwanted effects due to it  
XX  
XX SQ Sequence 20 BP; 3 A; 3 C; 8 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 994 AACCTGCTCATCAGGAGA 1012  
| ||||| ||||| | |||  
Db 19 ACCCTGCTCATCAGCAAGA 1

RESULT 1085  
ABD21650/C  
ID ABD21650 standard; DNA; 20 BP.  
XX AC  
XX ABD21650;  
XX AC  
XX XX  
XX 29-JUL-2004 (first entry)  
XX XX  
XX S100 calcium binding protein A2-derived oligo SEQ ID 662.  
XX XX  
XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
XX respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
XX surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
XX analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
XX beta-adrenergic agonists; respiratory disease; pulmonary vasoconstriction;  
XX respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
XX emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
XX pulmonary transplantation rejection; ss; primer.  
XX  
XX Homo sapiens.  
XX  
XX WO200285309-A2.  
XX  
XX 31-OCT-2002.  
XX  
XX 23-APR-2002; 2002WO-US013143.  
XX  
XX 24-APR-2001; 2001US-0286036P.  
XX  
XX (EPIG-) EPIGENESIS PHARM INC.  
XX  
XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
PI Miller S, Tang L, Shahabuddin S;  
PI  
XX  
XX WPI; 2003-093058/08.  
XX  
XX Pharmaceutical composition for treating asthma, has antisense  
PT oligonucleotide containing less percentage of adenosine, targeted to  
PT nucleic acids associated with lung airway or lung dysfunction, and  
PT bronchodilating agent.  
XX  
XX Claim 15; SEQ ID NO 662; 763pp; English.  
XX  
XX This invention describes a novel composition (a) a first active agent,  
CC comprising oligonucleotides, effective for alleviating  
CC bronchoconstriction, respiratory tract inflammation, allergies and  
CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
CC surfactant depletion or hyposecretion, when administered to a mammal. The

CC oligonucleotides are derived from a gene encoding or regulating  
 CC expression of a target polypeptide associated with lung airway or lung  
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
 CC The invention also describes a kit, that comprises: (a) a delivery  
 CC device, in separate containers, (b) the oligonucleotides, (c)  
 CC instructions for adding a carrier and for use of the kit. The composition  
 CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
 CC beta-adrenergic agonist. The composition is useful for preventing or  
 CC treating a respiratory, lung or malignant disease. The administered  
 CC composition comprises oligo and is administered to reduce the production  
 CC or availability, or to increase the degradation of the target mRNA or to  
 CC reduce the amount of target polypeptide present in the lungs. The  
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 CC inflammation, allergies, asthma, impeded respiration, respiratory  
 CC with a disease or condition such as pulmonary vasoconstriction,  
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 CC The reduced adenosine content of the anti-sense oligos corresponding to  
 CC thymidines present in the target RNA serves to prevent the breakdown of  
 CC the oligonucleotides into products that free adenosine into the system  
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 CC prevent any unwanted effects due to it

SQ Sequence 20 BP; 4 A; 7 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1029 GGCTGACTTGGCTGGCC 1047

DB 19 GGCTGCCCTTGACCTGGCC 1

RESULT 1086

ABD29365

ID ABD29365 standard; DNA; 20 BP.

AC ABD29365;

XX 29-JUL-2004 (first entry)

DE AA001432-derived oligonucleotide SEQ ID 8377.

XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 KW pulmonary transplantation rejection; ss; primer.

XX Homo sapiens.

XX WO200285309-A2.

XX 31-OCT-2002.

XX 23-APR-2002; 2002WO-US013143.

XX 24-APR-2001; 2001US-0286036P.

XX (EPTG-) EPIGENESIS PHARM INC.

XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;

XX WPI; 2003-093058/08.

XX

PT Pharmaceutical composition for treating asthma, has antisense  
 PT oligonucleotide containing less percentage of adenosine, targeted to  
 PT nucleic acids associated with lung airway or lung dysfunction, and  
 PT bronchodilating agent.

XX Claim 15; SEQ ID NO 8377; 763pp; English.

XX This invention describes a novel composition (a) a first active agent,  
 CC comprising oligonucleotides, effective for alleviating  
 CC bronchoconstriction, respiratory tract inflammation, allergies and  
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
 CC surfactant depletion or hyposecretion, when administered to a mammal. The  
 CC oligonucleotides are derived from a gene encoding or regulating  
 CC expression of a target polypeptide associated with lung airway or lung  
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
 CC The invention also describes a kit, that comprises: (a) a delivery  
 CC device, in separate containers, (b) the oligonucleotides, (c)  
 CC instructions for adding a carrier and for use of the kit. The composition  
 CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic, is a  
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
 CC beta-adrenergic agonist. The composition is useful for preventing or  
 CC treating a respiratory, lung or malignant disease. The administered  
 CC composition comprises oligo and is administered to reduce the production  
 CC or availability, or to increase the degradation of the target mRNA or to  
 CC reduce the amount of target polypeptide present in the lungs. The  
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 CC inflammation, allergies and/or surfactant hypoproduction are associated  
 CC with a disease or condition such as pulmonary vasoconstriction,  
 CC inflammation, allergies, asthma, impeded respiration, respiratory  
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 CC The reduced adenosine content of the anti-sense oligos corresponding to  
 CC thymidines present in the target RNA serves to prevent the breakdown of  
 CC the oligonucleotides into products that free adenosine into the system  
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 CC prevent any unwanted effects due to it

SQ Sequence 20 BP; 8 A; 5 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1521 GGAGATTACGCTACAAAAG 1539

DB 1 GGAAATTCACCTTCAAAAAG 19

RESULT 1087

ABD23252/c

ID ABD23252 standard; DNA; 20 BP.

XX ABD23252;

XX 29-JUL-2004 (first entry)

DE Human myosin X-derived oligonucleotide SEQ ID 2264.

XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 KW pulmonary transplantation rejection; ss; primer.

XX Homo sapiens.

XX WO200285309-A2.

XX 31-OCT-2002.

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XX 23-APR-2002; 2002WO-US013143.
XX
XX 24-APR-2001; 2001US-0286036P.
XX
XX (EPIG-) EPIGENESIS PHARM INC.
XX
XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
XX Miller S, Tang L, Shahabuddin S;
XX
XX WPI; 2003-093058/08.
XX
XX Pharmaceutical composition for treating asthma, has antisense
XX oligonucleotide containing less percentage of adenosine, targeted to
XX nucleic acids associated with lung airway or lung dysfunction, and
XX bronchodilating agent.
XX
XX Claim 15; SEQ ID NO 2264; 763pp; English.
XX
XX This invention describes a novel composition (a) a first active agent,
XX comprising oligonucleotides, effective for alleviating
XX bronchoconstriction, respiratory tract inflammation, allergies and
XX reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,
XX surfactant depletion or hyposcretion, when administered to a mammal. The
XX oligonucleotides are derived from a gene encoding or regulating
XX expression of a target polypeptide associated with lung airway or lung
XX dysfunction or cancer and can be anti-sense to the corresponding mRNA.
XX The invention also describes a kit, that comprises: (a) a delivery
XX device, in separate containers, (b) the oligonucleotides, (c)
XX instructions for adding a carrier and for use of the kit. The composition
XX of the invention has anti-allergic, anti-inflammatory, antiasthmatic,
XX analgesic, hypotensive, immunosuppressive and cytostatic activity, is a
XX beta-adrenergic agonist. The composition is useful for preventing or
XX treating a respiratory, lung or malignant disease. The administered
XX composition comprises oligo and is administered to reduce the production
XX or availability, or to increase the degradation of the target mRNA or to
XX reduce the amount of target polypeptide present in the lungs. The
XX pulmonary obstruction, and/or bronchoconstriction and/or lung
XX inflammation, allergies and/or surfactant hypoproduction are associated
XX with a disease or condition such as pulmonary vasoconstriction,
XX inflammation, allergies, asthma, impeded respiration, respiratory
XX distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary
XX hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary
XX transplantation rejection, pulmonary infections, bronchitis or cancer.
XX The reduced adenosine content of the anti-sense oligos corresponding to
XX thymidines present in the target RNA serves to prevent the breakdown of
XX the oligonucleotides into products that free adenosine into the system
XX e.g., lung, brain, heart, kidney, etc. tissue environment and thereby, to
XX prevent any unwanted effects due to it
XX
XX Sequence 20 BP; 7 A; 4 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1394 CCAAGCTGTTGAGTTTGA 1412
XX 19 CCAAGCTGATGATCTTGA 1
XX
XX Db
XX
XX RESULT 1088
XX ABD24177
XX ID ABD24177 standard; DNA; 20 BP.
XX
XX AC ABD24177;
XX
XX XX ABD24177;
XX
XX DT 29-JUL-2004 (first entry)
XX
XX XX Human calmodulin 2-derived oligonucleotide SEQ ID 3189.
XX
XX DE Human; antisense; bronchoconstriction; allergy; hyposcretion; pain;
XX KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;
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RESULT 1089  
ABD21007/c  
ID ABD21007 standard; DNA; 20 BP.  
XX AC ABD21007;  
XX DT 29-JUL-2004 (first entry)  
XX DE Human transglutaminase-derived oligo SEQ ID 19.  
XX KW Human; antiseize; bronchoconstriction; allergy; hyposecretion; pain;  
KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
KW analgesic; hypotensive; immunosuppressive; cystostatic; cystic fibrosis;  
KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
KW pulmonary transplantation rejection; ss; primer.  
XX OS Homo sapiens.  
XX PN WO200285309-A2.  
XX PD 31-OCT-2002.  
XX PF 23-APR-2002; 2002WO-US013143.  
XX PR 24-APR-2001; 2001US-0286036P.  
XX PA (EPIG-) EPIGENESIS PHARM INC.  
XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
PI Miller S, Tang L, Shahabuddin S;  
XX WPI; 2003-093058/08.  
XX PT Pharmaceutical composition for treating asthma, has antiseize  
PT oligonucleotide containing less percentage of adenosine, targeted to  
PT nucleic acids associated with lung airway or lung dysfunction, and  
PT bronchodilating agent.  
XX PS Claim 15; SEQ ID NO 19; 763pp; English.  
XX CC This invention describes a novel composition (a) a first active agent,  
CC comprising oligonucleotides, effective for alleviating  
CC bronchoconstriction, respiratory tract inflammation, allergies and  
CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
CC surfactant depletion or hyposecretion, when administered to a mammal. The  
CC oligonucleotides are derived from a gene encoding or regulating  
CC expression of a target polypeptide associated with lung airway or lung  
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
CC The invention also describes a kit, that comprises: (a) a delivery  
CC device, in separate containers, (b) the oligonucleotides, (c)  
CC instructions for adding a carrier and for use of the kit. The composition  
CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
CC beta-adrenergic agonist. The composition is useful for preventing or  
CC treating a respiratory, lung or malignant disease. The administered  
CC composition comprises oligo and is administered to reduce the production  
CC or availability, or to increase the degradation of the target mRNA or to  
CC reduce the amount of target polypeptide present in the lungs. The  
CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
CC inflammation, allergies and/or surfactant hypoproduction are associated  
CC with a disease or condition such as pulmonary vasoconstriction,  
CC inflammation, allergies, asthma, impeded respiration, respiratory  
CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
CC transplantation rejection, chronic obstructive pulmonary disease, pulmonary  
CC emphysema, chronic obstructive pulmonary disease, bronchitis or cancer.  
CC The reduced adenosine content of the anti-sense oligos corresponding to  
CC thymidines present in the target RNA serves to prevent the breakdown of  
CC the oligonucleotides into products that free adenosine into the system  
CC e.g., lung, brain, heart, kidney, etc., tissue environment and thereby, to  
CC prevent any unwanted effects due to it

XX SQ Sequence 20 BP; 5 A; 3 C; 7 G; 5 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 993 GAACCTGCTCATCAAGAG 1011  
Db 19 GAACCTGCTCATCTCCAG 1  
RESULT 1090  
ABD21288/c  
ID ABD21288 standard; DNA; 20 BP.  
XX AC ABD21288;  
XX DT 29-JUL-2004 (first entry)  
XX DE Human transglutaminase-derived oligo SEQ ID 300.  
XX KW Human; antiseize; bronchoconstriction; allergy; hyposecretion; pain;  
KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
KW analgesic; hypotensive; immunosuppressive; cystostatic; cystic fibrosis;  
KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
KW pulmonary transplantation rejection; ss; primer.  
XX OS Homo sapiens.  
XX PN WO200285309-A2.  
XX PD 31-OCT-2002.  
XX PF 23-APR-2002; 2002WO-US013143.  
XX PR 24-APR-2001; 2001US-0286036P.  
XX PA (EPIG-) EPIGENESIS PHARM INC.  
XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
PI Miller S, Tang L, Shahabuddin S;  
XX WPI; 2003-093058/08.  
XX PT Pharmaceutical composition for treating asthma, has antiseize  
PT oligonucleotide containing less percentage of adenosine, targeted to  
PT nucleic acids associated with lung airway or lung dysfunction, and  
PT bronchodilating agent.  
XX PS Claim 15; SEQ ID NO 300; 763pp; English.  
XX CC This invention describes a novel composition (a) a first active agent,  
CC comprising oligonucleotides, effective for alleviating  
CC bronchoconstriction, respiratory tract inflammation, allergies and  
CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
CC surfactant depletion or hyposecretion, when administered to a mammal. The  
CC oligonucleotides are derived from a gene encoding or regulating  
CC expression of a target polypeptide associated with lung airway or lung  
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
CC The invention also describes a kit, that comprises: (a) a delivery  
CC device, in separate containers, (b) the oligonucleotides, (c)  
CC instructions for adding a carrier and for use of the kit. The composition  
CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
CC beta-adrenergic agonist. The composition is useful for preventing or  
CC treating a respiratory, lung or malignant disease. The administered  
CC composition comprises oligo and is administered to reduce the production  
CC or availability, or to increase the degradation of the target mRNA or to  
CC reduce the amount of target polypeptide present in the lungs. The

CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 CC inflammation, allergies and/or surfactant hypoproduction are associated  
 CC with a disease or condition such as pulmonary vasoconstriction,  
 CC inflammation, allergies, asthma, impeded respiration, respiratory  
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 CC hyperextension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 CC The reduced adenosine content of the anti-sense oligos corresponding to  
 CC thymidines present in the target RNA serves to prevent the breakdown of  
 CC the oligonucleotides into products that free adenosine into the system  
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 CC prevent any unwanted effects due to it  
 XX  
 SQ Sequence 20 BP; 2 A; 4 C; 7 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 623 AGCTGGACAACTGGCGGA 641

Db 19 ACCTGACAAACTGGCCGA 1

RESULT 1091

ID ABD21497/c  
 XX ABD21497 standard; DNA; 20 BP.

AC ABD21497;

XX 29-JUL-2004 (first entry)

DE Human transglutaminase-derived oligo SEQ ID 509.

XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 KW pulmonary transplantation rejection; ss; primer.

XX Homo sapiens.

XX WO200285309-A2.

XX 31-OCT-2002.

XX 23-APR-2002; 2002WO-US013143.

XX 24-APR-2001; 2001US-0286036P.

XX (EPIG-) EPIGENESIS PHARM INC.

XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;

PI Miller S, Tang L, Shahabuddin S;

XX WPI; 2003-093058/08.

XX Pharmaceutical composition for treating asthma, has antisense

PT oligonucleotide containing less percentage of adenosine, targeted to

PT nucleic acids associated with lung airway or lung dysfunction, and

PT bronchodilating agent.

XX Claim 15; SEQ ID NO 509; 763pp; English.

XX This invention describes a novel composition (a) a first active agent,  
 CC comprising oligonucleotides, effective for alleviating  
 CC bronchoconstriction, respiratory tract inflammation, allergies and  
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
 CC surfactant depletion or hyposecretion, when administered to a mammal. The  
 CC oligonucleotides are derived from a gene encoding or regulating

CC expression of a target polypeptide associated with lung airway or lung  
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
 CC The invention also describes a kit, that comprises: (a) a delivery  
 CC device, in separate containers, (b) the oligonucleotides, (c)  
 CC instructions for adding a carrier and for use of the kit. The composition  
 CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
 CC beta-adrenergic agonist. The composition is useful for preventing or  
 CC treating a respiratory, lung or malignant disease. The administered  
 CC composition comprises oligo and is administered to reduce the production  
 CC or availability, or to increase the degradation of the target mRNA or to  
 CC reduce the amount of target polypeptide present in the lungs. The  
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 CC inflammation, allergies and/or surfactant hypoproduction are associated  
 CC with a disease or condition such as pulmonary vasoconstriction,  
 CC inflammation, allergies, asthma, impeded respiration, respiratory  
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 CC The reduced adenosine content of the anti-sense oligos corresponding to  
 CC thymidines present in the target RNA serves to prevent the breakdown of  
 CC the oligonucleotides into products that free adenosine into the system  
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 CC prevent any unwanted effects due to it  
 XX

SQ Sequence 20 BP; 4 A; 6 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1403 TGCAGTTTGAGGTCGAAA 1421

Db 19 TGCAGTTTGAGGTCGCGAA 1

RESULT 1092

ABD23739/c

ID ABD23739 standard; DNA; 20 BP.

XX ABD23739;

XX 29-JUL-2004 (first entry)

XX Human myosin X-derived oligonucleotide SEQ ID 2751.

XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 KW pulmonary transplantation rejection; ss; primer.

XX Homo sapiens.

XX WO200285309-A2.

XX 31-OCT-2002.

XX 23-APR-2002; 2002WO-US013143.

XX 24-APR-2001; 2001US-0286036P.

XX (EPIG-) EPIGENESIS PHARM INC.

XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;

PI Miller S, Tang L, Shahabuddin S;

XX WPI; 2003-093058/08.

XX Pharmaceutical composition for treating asthma, has antisense



PT oligonucleotide containing less percentage of adenosine, targeted to  
PT nucleic acids associated with lung airway or lung dysfunction, and  
PT bronchodilating agent.  
XX Claim 15; SEQ ID NO 2751; 763pp; English.  
XX  
CC This invention describes a novel composition (a) a first active agent,  
CC comprising oligonucleotides, effective for alleviating  
CC bronchoconstriction, respiratory tract inflammation, allergies and  
CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
CC surfactant depletion or hyposecretion, when administered to a mammal. The  
CC oligonucleotides are derived from a gene encoding or regulating  
CC expression of a target polypeptide associated with lung airway or lung  
CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
CC The invention also describes a kit, that comprises: (a) a delivery  
CC device, in separate containers, (b) the oligonucleotides, (c)  
CC instructions for adding a carrier and for use of the kit. The composition  
CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
CC beta-adrenergic agonist. The composition is useful for preventing or  
CC treating a respiratory, lung or malignant disease. The administered  
CC composition comprises oligo and is administered to reduce the production  
CC or availability, or to increase the degradation of the target mRNA or to  
CC reduce the amount of target polypeptide present in the lungs. The  
CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
CC inflammation, allergies and/or surfactant hypoproduction are associated  
CC with a disease or condition such as pulmonary vasoconstriction,  
CC inflammation, allergies, asthma, impeded respiration, respiratory  
CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
CC The reduced adenosine content of the anti-sense oligos corresponding to  
CC thymidines present in the target RNA serves to prevent the breakdown of  
CC the oligonucleotides into products that free adenosine into the system  
CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
CC prevent any unwanted effects due to it  
XX  
SQ Sequence 20 BP; 2 A; 6 C; 2 G; 10 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 715 CTGGAACATGAGAGGGG 733  
|||||||  
Db 20 CTGGAACATGAGAGAG 2

RESULT 1093  
ID ADG42473/c  
XX ADG42473 standard; DNA; 20 BP.  
AC ADG42473;  
XX  
XX 26-FEB-2004 (first entry)  
XX Human PTTG1 antisense oligonucleotide ISIS131034.  
XX  
XX Human; ss; antisense gene therapy; PTTG1;  
XX pituitary tumour-transforming gene 1; securin; TUTR1;  
XX ESP-1 associated protein; cytostatic; antiinflammatory; inflammation;  
XX tumour.  
XX Homo sapiens.  
XX  
XX Key Location/Qualifiers  
FH modified\_base 1..20  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone.All cytidines are 5-  
FT methylcytidines"  
FT modified\_base 1..5  
FT /\*tag= a

FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl nucleotides"  
XX  
XX US2003194396-A1.  
XX 16-OCT-2003.  
XX 02-APR-2002; 2002US-00114683.  
XX 02-APR-2002; 2002US-00114683.  
XX (ISIS-) ISIS PHARM INC.  
XX (ABBO ) ABBOTT LAB.  
XX Watt AT, Luo Y;  
XX WPI; 2004-041251/04.  
XX New antisense compound targeted to a nucleic acid molecule encoding human  
XX pituitary tumor-transforming gene useful for prophylaxis of e.g.  
XX inflammation and tumor formation.  
XX Example 15; SEQ ID NO 30; 46pp; English.  
XX The invention relates to an antisense compound having a length of 8 - 50  
XX nucleotides and targeted to a nucleic acid molecule encoding human  
XX pituitary tumour-transforming gene (PTTG1, also known as securin, TUTR1  
XX or ESP-1 associated protein). The antisense oligonucleotides are useful  
XX for inhibiting the expression of PTTG1 in human cells or tissues, for  
XX treating diseases associated with PTTG1, as tools in differential and/or  
XX combinatorial analysis to elucidate expression patterns of a portion of  
XX the entire complement of genes expressed within cells and tissues, for  
XX diagnostics, therapeutics, and prophylaxis of e.g. inflammation, tumour  
XX formation and as research reagents and kits. The present sequence is an  
XX antisense oligonucleotide of the invention, targeting human PTTG1.  
XX  
XX Sequence 20 BP; 6 A; 6 C; 2 G; 6 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1010 AGAGGGGAGAGCTCAAGCT 1028  
|||||||  
Db 19 AGATGGGAGATCTCAAGTT 1  
RESULT 1094  
ADE44005/c  
ID ADE44005 standard; DNA; 20 BP.  
XX  
XX ADE44005;  
XX  
XX 26-FEB-2004 (first entry)  
XX MUC-1 related PCR primer 2006MUC1.  
XX MUC-1; cytostatic; vaccine; tumour; carcinoma; immune response;  
XX cytotoxic T lymphocyte; antibody response; human; PCR primer; ss.  
XX Synthetic.  
XX Homo sapiens.  
XX WO2003099193-A2.  
XX  
XX 04-DEC-2003.  
XX 23-MAY-2003; 2003WO-EP005595.  
XX



PR 24-MAY-2002; 2002GB-00012036.  
XX (GLAX ) GLAXO GROUP LTD.  
PA Burden N, Hamblin P;  
XX WPI; 2004-035026/03.  
XX  
XX New nucleic acid molecule encoding a MUC-1 derivative that is devoid of  
PT all perfect repeats, useful as vaccine for treating or preventing MUC-1  
PT expressing tumors e.g. carcinoma of the breast, lung or gastrointestinal  
PT carcinomas.  
XX  
XX Example; Page 34; 34pp; English.  
XX  
XX The present invention describes a nucleic acid molecule encoding a MUC-1  
CC derivative that is devoid of all perfect repeats. Also described: (1) a  
CC plasmid comprising the DNA molecule; (2) a protein encoded by a nucleic  
CC acid molecule; (3) a pharmaceutical composition comprising the nucleic  
CC acid, the plasmid or the protein and a pharmaceutical acceptable  
CC excipient, diluent or carrier; and (4) a method of treating or preventing  
CC tumours. MUC-1 has cytostatic activity, and can be used in vaccines. The  
CC nucleic acid, plasmid, a protein or the pharmaceutical composition of the  
CC present invention can be used in medicine. The nucleic acid or the  
CC protein can be used in the preparation of a medicament for the treatment  
CC or prevention MUC-1 expressing tumours. The tumour can be carcinomas of  
CC the breast, lung, gastric or other gastrointestinal carcinomas. The  
CC nucleic acid vaccines are easy to produce in large quantities compared  
CC over conventional protein vaccination. Even at small doses they have been  
CC reported to induce strong immune responses and can induce a cytotoxic T  
CC lymphocyte immune response as well as an antibody response. The present  
CC sequence represents a PCR primer which is used in the exemplification of  
CC the present invention.  
XX  
SQ Sequence 20 BP; 6 A; 9 C; 4 G; 1 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. NO. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1015 GGAGAGCTCAAGCTGGCTG 1033  
Db 20 GGAGTGCTCTTGCTGGCTG 2  
|||||  
RESULT 1095  
ADP32644/c  
ID ADF32644 standard; DNA; 20 BP.  
XX  
AC ADF32644;  
XX  
DT 26-FEB-2004 (first entry)  
XX  
DE MUC-1 related PCR primer 2006MUC1.  
XX  
KW MUC-1 antigen; immune response; MUC-1; variable number of tandem repeat;  
KW VNTR; repeat unit; tumour; metastasis; cytostatic; vaccine; gene therapy;  
KW PCR primer; ss.  
XX  
OS Synthetic.  
XX  
PN WO2003100060-A2.  
XX  
XX 04-DEC-2003.  
PD  
XX 23-MAY-2003; 2003WO-EP005594.  
PF  
XX 24-MAY-2002; 2002GB-00012046.  
PR  
XX (GLAX ) GLAXO GROUP LTD.  
PA Burden N, Ellis JH, Hamblin PA;  
XX

DR WPI; 2004-042811/04.  
XX  
XX New nucleic acid molecule encoding a MUC-1 antigen, useful for preparing  
PT a composition for treating or preventing tumors or metastases.  
XX  
XX Example; Page 66; 66pp; English.  
XX  
XX The present invention describes a nucleic acid molecule which encodes a  
CC MUC-1 antigen. The nucleic acid is capable of raising an immune response  
CC in vivo, has reduced susceptibility to recombination than full-length MUC  
CC -1 and comprises between 1 and 15 variable number of tandem repeats  
CC (VNTR) perfect repeat units. Also described: (1) a plasmid comprising the  
CC DNA molecule; (2) a protein encoded by the nucleic acid; (3) a  
CC pharmaceutical composition comprising the nucleic acid, plasmid or  
CC protein and an excipient, diluent or carrier; and (4) a method of  
CC treating or preventing tumours or metastases. A MUC1 antigen has  
CC cytostatic activity, and can be used in vaccines, and in gene therapy.  
CC The nucleic acid is useful for preparing a composition for treating or  
CC preventing tumours or metastases. The present sequence is used in the  
CC exemplification of the present invention.  
XX  
SQ Sequence 20 BP; 6 A; 9 C; 4 G; 1 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. NO. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1015 GGAGAGCTCAAGCTGGCTG 1033  
Db 20 GGAGTGCTCTTGCTGGCTG 2  
|||||  
RESULT 1096  
ADG72400/c  
ID ADG72400 standard; DNA; 20 BP.  
XX  
AC ADG72400;  
XX  
DT 11-MAR-2004 (first entry)  
XX  
DE Human E2-EPPF antisense oligonucleotide ISIS 156928.  
XX  
KW ss; E2-EPPF; autoimmune disease; skin disease; pemphigus foliaceus; human;  
KW antisense.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
PN US2003232436-A1.  
XX  
PD 18-DEC-2003.  
XX  
PF 14-JUN-2002; 2002US-00173240.  
XX  
PR 14-JUN-2002; 2002US-00173240.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Monia BP, Dobie KW;  
XX  
XX WPI; 2004-052171/05.  
DR  
XX New antisense oligonucleotide targeted to a nucleic acid encoding E2-EPPF,  
PT useful for treating an autoimmune disease, preferably a skin disease,  
PT such as, pemphigus foliaceus.  
XX  
XX Example 15; SEQ ID NO 39; 45pp; English.  
PS  
XX The invention relates to a compound targeted to, and which specifically  
CC hybridises with, a nucleic acid molecule encoding E2-EPPF, and that  
CC inhibits the expression of E2-EPPF. The compound, composition and methods  
CC are useful for treating a disease or condition associated with E2-EPPF,  
CC such as an autoimmune disease, preferably a skin disease such as

CC pemphigus foliaceus. They are also useful in research and diagnostics for  
CC modulating the expression of E2-EPF. The present sequence represents a  
CC human E2-EPF antisense oligonucleotide.

XX SQ Sequence 20 BP; 5 A; 5 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 275 CTGCTCTGGGAACCTCG 293

Db 19 CTGCTCTGGGAACCTACG 1

RESULT 1097

ADG72433

ID ADG72433 standard; DNA; 20 BP.

XX AC

ADG72433;

XX AC

11-MAR-2004 (first entry)

XX DT

Human E2-EPF target region ISIS 72351.

XX DE

ss; E2-EPF; autoimmune disease; skin disease; pemphigus foliaceus; human.

XX KW

OS

Homo sapiens.

XX OS

US2003232436-A1.

XX PN

18-DEC-2003.

XX PD

14-JUN-2002; 2002US-00173240.

XX PF

14-JUN-2002; 2002US-00173240.

XX PR

(ISIS-) ISIS PHARM INC.

XX PA

Monia BP, Dobie KW;

XX PI

WPI; 2004-052171/05.

XX DR

New antisense oligonucleotide targeted to a nucleic acid encoding E2-EPF,

PT useful for treating an autoimmune disease, preferably a skin disease,

PT such as, pemphigus foliaceus.

XX PT

Example 15; SEQ ID NO 72; 45pp; English.

XX PS

The invention relates to a compound targeted to, and which specifically

CC hybridises with, a nucleic acid molecule encoding E2-EPF, and that

CC inhibits the expression of E2-EPF. The compound, composition and methods

CC are useful for treating a disease or condition associated with E2-EPF,

CC such as an autoimmune disease, preferably a skin disease such as

CC pemphigus foliaceus. They are also useful in research and diagnostics for

CC modulating the expression of E2-EPF. The present sequence represents a

CC human E2-EPF target region.

XX CC

SQ Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 275 CTGCTCTGGGAACCTCG 293

Db 2 CTGCTCTGGGAACCTACG 20

RESULT 1098

ADG72393/C

ID ADG72393 standard; DNA; 20 BP.

XX PF

AC ADG72393;  
XX DT  
11-MAR-2004 (first entry)

DE Human E2-EPF antisense oligonucleotide ISIS 156921.

XX ss; E2-EPF; autoimmune disease; skin disease; pemphigus foliaceus; human;

KW antisense.

XX OS

Synthetic.

OS Homo sapiens.

XX OS

US2003232436-A1.

XX PN

18-DEC-2003.

XX PD

14-JUN-2002; 2002US-00173240.

XX PF

14-JUN-2002; 2002US-00173240.

XX PR

(ISIS-) ISIS PHARM INC.

XX PA

Monia BP, Dobie KW;

XX PI

WPI; 2004-052171/05.

XX DR

New antisense oligonucleotide targeted to a nucleic acid encoding E2-EPF,

PT useful for treating an autoimmune disease, preferably a skin disease,

PT such as, pemphigus foliaceus.

XX PT

Example 15; SEQ ID NO 32; 45pp; English.

XX PS

The invention relates to a compound targeted to, and which specifically

CC hybridises with, a nucleic acid molecule encoding E2-EPF, and that

CC inhibits the expression of E2-EPF. The compound, composition and methods

CC are useful for treating a disease or condition associated with E2-EPF,

CC such as an autoimmune disease, preferably a skin disease such as

CC pemphigus foliaceus. They are also useful in research and diagnostics for

CC modulating the expression of E2-EPF. The present sequence represents a

CC human E2-EPF antisense oligonucleotide.

XX CC

SQ Sequence 20 BP; 2 A; 7 C; 4 G; 7 T; 0 U; 0 Other;

Query Match

Best Local Similarity 84.2%; Score 14.2; DB 1; Length 20;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1080 CAATGAGGTGGTGCACACTG 1098

Db 19 CAAGGAGGTGACGACACTG 1

RESULT 1099

ADG72427

ID ADG72427 standard; DNA; 20 BP.

XX AC

ADG72427;

XX DT

11-MAR-2004 (first entry)

XX DE

Human E2-EPF target region ISIS 72344.

XX KW

ss; E2-EPF; autoimmune disease; skin disease; pemphigus foliaceus; human.

XX OS

Homo sapiens.

XX OS

US2003232436-A1.

XX PN

18-DEC-2003.

XX PD

14-JUN-2002; 2002US-00173240.

XX PF

14-JUN-2002; 2002US-00173240.

XX PR

```
XX PA (ISIS-) ISIS PHARM INC.
XX PI Monia BP, Dobie KW;
XX XX WPI; 2004-052171/05.
XX XX
XX XX New antisense oligonucleotide targeted to a nucleic acid encoding E2-EPPF,
XX PT useful for treating an autoimmune disease, preferably a skin disease,
XX PT such as, pemphigus foliaceus.
XX XX Example 15; SEQ ID NO 66; 45pp; English.
XX XX
XX CC The invention relates to a compound targeted to, and which specifically
XX CC hybridises with, a nucleic acid molecule encoding E2-EPPF, and that
XX CC inhibits the expression of E2-EPPF. The compound, composition and methods
XX CC are useful for treating a disease or condition associated with E2-EPPF,
XX CC such as an autoimmune disease, preferably a skin disease such as
XX CC pemphigus foliaceus. They are also useful in research and diagnostics for
XX CC modulating the expression of E2-EPPF. The present sequence represents a
XX CC human E2-EPPF target region.
XX XX
XX SQ Sequence 20 BP; 7 A; 4 C; 7 G; 2 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1080 CAATGAGTGGTGTGACACTG 1098
DB 2 CAAGGAGGTGACGACACTG 20
XX
RESULT 1100
ADG87026
ID ADG87026 standard; cDNA; 20 BP.
XX
AC ADG87026;
XX
DT 11-MAR-2004 (first entry)
XX
DE Mouse PPAR antisense oligonucleotide target sequence #22.
XX
KW Mouse; ss; PPAR delta; peroxisome proliferative activated receptor delta;
XX KW antisense gene therapy; cytosatic; osteopathic; antidiabetic; cancer;
XX KW osteoporosis; diabetes; endocrine disorder.
XX
OS Mus musculus.
XX
PN US2003224514-A1.
XX
PD 04-DEC-2003.
XX
PF 31-MAY-2002; 2002US-00160807.
XX
PR 31-MAY-2002; 2002US-00160807.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Gaarde W, Freier SM, Watt AT;
XX
DR WPI; 2004-022078/02.
XX
XX The invention relates to an antisense oligonucleotide comprising 8-80
XX CC nucleobases in length targeted to the coding region of a nucleic acid
XX CC molecule encoding PPAR-delta (peroxisome proliferative activated receptor
XX CC delta), where the antisense compound inhibits the expression of the PPAR-
XX CC delta and has any of the 66 sequences of 20 amino acids fully defined in
```

```
CC the specification. Also included are a compound of 8-80 nucleobases in
CC length that specifically hybridises with at least an 8-nucleobase portion
CC of a preferred target region on a nucleic acid molecule encoding PPAR-
CC delta and a composition comprising the antisense oligonucleotide and a
CC carrier. The antisense oligonucleotide comprises at least one modified
CC internucleoside linkage (preferably 2'-O-methoxyethyl moiety), at least one
CC one sugar moiety (preferably 2'-O-methoxyethyl moiety) and at least one
CC modified nucleobase (which is a 5-methyl cytosine). The antisense
CC compounds are useful for treating cancer, osteoporosis, diabetes or
CC various endocrine disorders. The Human PPAR delta gene is located on
CC chromosome 6p21. The present sequence is a mouse PPAR delta cDNA target
CC sequence for the antisense oligonucleotides of the invention.
XX
XX SQ Sequence 20 BP; 3 A; 3 C; 9 G; 5 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 344 TGAAGATGGGCTGTGATGG 362
DB 2 TGCAGATGGGCTGTGATGG 20
XX
RESULT 1101
ADG86888/c
ID ADG86888 standard; DNA; 20 BP.
XX
AC ADG86888;
XX
DT 11-MAR-2004 (first entry)
XX
DE Mouse PPAR antisense oligonucleotide ISIS 221095.
XX
KW Mouse; ss; PPAR delta; peroxisome proliferative activated receptor delta;
XX KW antisense gene therapy; cytosatic; osteopathic; antidiabetic; cancer;
XX KW osteoporosis; diabetes; endocrine disorder.
XX
OS Mus musculus.
XX
FH Key Location/Qualifiers
XX FT modified_base 1..20
XX FT /tag= b
XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate linkages and all cytidines are 5
XX FT -methylcytidines"
XX FT modified_base 1..5
XX FT /tag= a
XX FT /mod_base= OTHER
XX FT /note= "2'-methoxyethyl residue"
XX FT modified_base 16..20
XX FT /tag= c
XX FT /mod_base= OTHER
XX FT /note= "2'-methoxyethyl residue"
XX
XX US2003224514-A1.
XX
XX PD 04-DEC-2003.
XX
XX PF 31-MAY-2002; 2002US-00160807.
XX
XX PR 31-MAY-2002; 2002US-00160807.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX PI Gaarde W, Freier SM, Watt AT;
XX
XX WPI; 2004-022078/02.
XX
XX New antisense oligonucleotides of 8-80 nucleobases, useful for treating
XX PT cancer, diabetes, osteoporosis or various endocrine disorders.
XX
XX Example 16; SEQ ID NO 124; 155pp; English.
XX
PS
```

xx The invention relates to an antisense oligonucleotide comprising 8-80  
 CC nucleobases in length targeted to the coding region of a nucleic acid  
 CC molecule encoding PPAR-delta (peroxisome proliferative activated receptor  
 CC delta), where the antisense compound inhibits the expression of the PPAR-  
 CC delta and has any of the 66 sequences of 20 amino acids fully defined in  
 CC the specification. Also included are a compound of 8-80 nucleobases in  
 CC length that specifically hybridises with at least an 8-nucleobase portion  
 CC of a preferred target region on a nucleic acid molecule encoding PPAR-  
 CC delta and a composition comprising the antisense oligonucleotide and a  
 CC carrier. The antisense oligonucleotide comprises at least one modified  
 CC internucleoside linkage (preferably a phosphorothioate linkage), at least  
 CC one sugar moiety (preferably 2'-O-methoxyethyl moiety) and at least one  
 CC modified nucleobase (which is a 5-methyl cytosine). The antisense  
 CC compounds are useful for treating cancer, osteoporosis, diabetes or  
 CC various endocrine disorders. The Human PPAR delta gene is located on  
 CC chromosome 6p21. The present sequence is an antisense oligonucleotide of  
 CC the invention targeting mouse PPAR delta.  
 xx  
 SQ Sequence 20 BP; 5 A; 9 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 344 TGAAGATGGGCTCTGATGG 362  
 |||||  
 Db 19 TGCAGATGGGCTGTGATGG 1

RESULT 1102  
 ADH18431/C  
 ID ADH18431 standard; DNA; 20 BP.  
 XX  
 AC ADH18431;  
 XX  
 DT 11-MAR-2004 (first entry)  
 XX  
 DE 2'-MOE gapmer antisense oligo targeted to human Apob DNA 3 - SEQ ID 420.  
 XX  
 KW apolipoprotein B; Apob; antiarteriosclerotic; cardiant; antidiabetic;  
 KW anorectic; lipid; cholesterol metabolism; atherosclerosis;  
 KW diabetes Type 2; obesity; hyperlipidaemia; cardiovascular; gene therapy;  
 KW antisense; 2'-O-methoxyethyl gapmer; phosphorothioate backbone; 2'-MOE;  
 KW human; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003097662-A1.  
 XX  
 PD 27-NOV-2003.  
 XX  
 PF 15-MAY-2003; 2003WO-US015493.  
 XX  
 PR 15-MAY-2002; 2002US-00147196.  
 PR 13-NOV-2002; 2002US-0426324P.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Crooke RM, Graham MJ;  
 XX  
 DR WPI; 2004-022840/02.  
 XX  
 PT New antisense compound, useful for preparing a composition for treating  
 PT abnormal lipid or cholesterol metabolism, atherosclerosis, diabetes Type  
 PT 2, obesity, hyperlipidaemia or cardiovascular disease.  
 XX  
 PS Claim 1; SEQ ID NO 420; 405pp; English.  
 XX  
 CC The invention relates to a novel antisense compound targeted to a nucleic  
 CC acid molecule encoding human apolipoprotein B (Apob) which specifically  
 CC hybridises with and inhibits the expression of human apolipoprotein B.  
 CC The compound of the invention demonstrates antiarteriosclerotic,

CC cardiant, antidiabetic and anorectic activities and may be useful for  
 CC preparing a composition for treating abnormal lipid or cholesterol  
 CC metabolism, atherosclerosis, diabetes Type 2, obesity, hyperlipidaemia or  
 CC cardiovascular disease. Furthermore, the compound has gene therapy  
 CC applications. The current sequence is that of the 2'-O-methoxyethyl (2'-  
 CC MOE) gapmer antisense oligo of the invention which has 2'-MOE 'wings', a  
 CC phosphorothioate backbone throughout and in which all cytidine residues  
 CC are 5-methylcytidines.  
 XX  
 SQ Sequence 20 BP; 9 A; 5 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 583 CTATCTCAGATGGCTTTG 601  
 |||||  
 Db 19 CTTTCTCAGATGGCTTTG 1

RESULT 1103  
 ADH18528  
 ID ADH18528 standard; DNA; 20 BP.  
 XX  
 AC ADH18528;  
 XX  
 DT 11-MAR-2004 (first entry)  
 XX  
 DE Human apolipoprotein B antisense inhibition target DNA - SEQ ID 517.  
 XX  
 KW apolipoprotein B; Apob; antiarteriosclerotic; cardiant; antidiabetic;  
 KW anorectic; lipid; cholesterol metabolism; atherosclerosis;  
 KW diabetes Type 2; obesity; hyperlipidaemia; cardiovascular; gene therapy;  
 KW antisense inhibition target; human; ds.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003097662-A1.  
 XX  
 PD 27-NOV-2003.  
 XX  
 PF 15-MAY-2003; 2003WO-US015493.  
 XX  
 PR 15-MAY-2002; 2002US-00147196.  
 PR 13-NOV-2002; 2002US-0426324P.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Crooke RM, Graham MJ;  
 XX  
 DR WPI; 2004-022840/02.  
 XX  
 PT New antisense compound, useful for preparing a composition for treating  
 PT abnormal lipid or cholesterol metabolism, atherosclerosis, diabetes Type  
 PT 2, obesity, hyperlipidaemia or cardiovascular disease.  
 XX  
 PS Claim 1; SEQ ID NO 517; 405pp; English.  
 XX  
 CC The invention relates to a novel antisense compound targeted to a nucleic  
 CC acid molecule encoding human apolipoprotein B (Apob) which specifically  
 CC hybridises with and inhibits the expression of human apolipoprotein B.  
 CC The compound of the invention demonstrates antiarteriosclerotic,  
 CC cardiant, antidiabetic and anorectic activities and may be useful for  
 CC preparing a composition for treating abnormal lipid or cholesterol  
 CC metabolism, atherosclerosis, diabetes Type 2, obesity, hyperlipidaemia or  
 CC cardiovascular disease. Furthermore, the compound has gene therapy  
 CC applications. The current sequence is that of the human Apob antisense  
 CC inhibition target DNA of the invention.  
 XX  
 SQ Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;

```
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1012 AGGGGAGAGCTCAAGCTGG 1030
Db 2 AGGTATGAGCTCAAGCTGG 20

RESULT 1104
ADH48222/C
ID ADH18139 standard; DNA; 20 BP.
XX AC
XX ADH18139;
XX OS
XX 11-MAR-2004 (first entry)
XX DE
XX 2'-MOE gapper antisense oligo targeted to human ApoB DNA 1 - SEQ ID 128.
XX KW
XX apolipoprotein B; ApoB; antiarteriosclerotic; cardiant; antidiabetic;
XX KW anorectic; lipid; cholesterol metabolism; atherosclerosis;
XX KW diabetes Type 2; obesity; hyperlipidaemia; cardiovascular; gene therapy;
XX KW antisense; 2'-O-methoxyethyl gapper; phosphorothioate backbone; 2'-MOE;
XX KW human; ss.
XX OS
XX Homo sapiens.
XX WO2003097662-A1.
XX PN
XX 27-NOV-2003.
XX PD
XX 15-MAY-2003; 2003WO-US015493.
XX PF
XX 15-MAY-2002; 2002US-00147196.
XX PR
XX 13-NOV-2002; 2002US-0426324P.
XX PA
XX (ISIS-) ISIS PHARM INC.
XX PI
XX Crooke RM, Graham MJ;
XX WPI; 2004-022840/02.
XX DR
XX New antisense compound, useful for preparing a composition for treating
PT abnormal lipid or cholesterol metabolism, atherosclerosis, diabetes Type
PT 2, obesity, hyperlipidemia or cardiovascular disease.
XX PS
XX Claim 1; SEQ ID NO 128; 405pp; English.
XX CC
XX The invention relates to a novel antisense compound targeted to a nucleic
CC acid molecule encoding human apolipoprotein B (ApoB) which specifically
CC hybridises with and inhibits the expression of human apolipoprotein B.
CC The compound of the invention demonstrates antiarteriosclerotic,
CC cardiant, antidiabetic and anorectic activities and may be useful for
CC preparing a composition for treating abnormal lipid or cholesterol
CC metabolism, atherosclerosis, diabetes Type 2, obesity, hyperlipidaemia or
CC cardiovascular disease. Furthermore, the compound has gene therapy
CC applications. The current sequence is that of the 2'-O-methoxyethyl (2'-
CC MOE) gapper antisense oligo of the invention which has 2'-MOE 'wings', a
CC phosphorothioate backbone throughout and in which all cytidine residues
CC are 5-methylcytidines.
XX SQ
XX Sequence 20 BP; 4 A; 7 C; 4 G; 5 T; 0 U; 0 Other;
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1012 AGGGGAGAGCTCAAGCTGG 1030
Db 19 AGGTATGAGCTCAAGCTGG 1

RESULT 1105
ADH48222
ID ADH48222 standard; DNA; 20 BP.
```

```
XX ADH48222;
XX AC
XX 25-MAR-2004 (first entry)
XX DE
XX Human GRK6 DNA, antisense oligonucleotide #14.
XX KW
XX Antisense therapy; human; G protein-coupled receptor kinase 6;
XX KW GPCR kinase 6; GRK6; rheumatoid arthritis; drug addition;
XX KW uterine contractility; hypertension; aberrant haematopoiesis;
XX KW antiinflammatory; antiarthritic; antirheumatic; hypotensive;
XX KW phosphorothioate; ss.
XX OS
XX Homo sapiens.
XX FH
XX Key Location/Qualifiers
FT modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "This oligonucleotide has a phosphorothioate
FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5'
FT and 3' ends, which are 5 nucleotides in length at each
FT end. All cytidine residues are 5-methylcytidines"
XX PN
XX US2003228689-A1.
XX PD
XX 11-DEC-2003.
XX PF
XX 31-MAY-2002; 2002US-00159856.
XX PR
XX 31-MAY-2002; 2002US-00159856.
XX PA
XX (ISIS-) ISIS PHARM INC.
XX PI
XX Freier SM, Dobie KW;
XX WPI; 2004-052027/05.
XX DR
XX New compounds, particularly antisense oligonucleotides targeted to a
PT nucleic acid encoding G protein-coupled receptor (GPCR) kinase 6, useful
PT for treating diabetes, drug addition, uterine contractility and
PT hypertension.
XX PS
XX Example 15; SEQ ID NO 24; 58pp; English.
XX CC
XX The present invention relates to antisense compounds targeted to a
CC nucleic acid encoding G protein-coupled receptor (GPCR) kinase 6 (GRK6).
CC The antisense compound comprises an antisense oligonucleotide that
CC specifically hybridises with the nucleic acid and inhibits the expression
CC of GRK6. The antisense oligonucleotide is a chimeric oligonucleotide. The
CC antisense oligonucleotide comprises at least one modified internucleoside
CC linkage, preferably a phosphorothioate linkage. It also comprises at
CC least one modified sugar moiety, preferably a 2'-O-methoxyethyl (2'-MOE)
CC sugar moiety. The antisense oligonucleotide further comprises at least
CC one modified nucleobase, preferably a 5-methylcytosine. The antisense
CC oligonucleotides are useful for the treatment of diseases such as
CC rheumatoid arthritis, drug addition, uterine contractility,
CC hypertension, and diseases or conditions arising from aberrant
CC haematopoiesis. The present sequence represents an antisense
CC oligonucleotide used in the examples of the present invention.
XX SQ
XX Sequence 20 BP; 5 A; 3 C; 6 G; 6 T; 0 U; 0 Other;
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 843 TGAGTACTGCACAAGGAC 861
Db 1 TGAGTCTCTGAAAAGGTC 19

RESULT 1106
```



PT New antisense compound targeted to a nucleic acid molecule encoding  
PT mammalian glucocorticoid receptor, useful for treating diabetes, obesity,  
PT cardiovascular disorder, hyperlipidemia or Cushing's syndrome.

XX Claim 4; SEQ ID NO 4237; 985pp; English.

CC The invention comprises an antisense oligonucleotides that are targeted  
CC to nucleic acids encoding a mammalian glucocorticoid receptor. The  
CC antisense oligonucleotides of the invention are useful for preventing or  
CC delaying infection, inflammation or tumour formation. The antisense  
CC oligonucleotides are also useful for treating diabetes, obesity,  
CC cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The  
CC present DNA sequence represents an antisense oligonucleotide that targets  
CC the human glucocorticoid receptor gene. NOTE: The present sequence  
CC contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothioate backbone.

XX SQ Sequence 20 BP; 5 A; 6 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 49 CCAGCAGTGTGACTGCTGA 67  
Db 20 CCAGCAGTGTGCTGCTCA 2  
|||||

RESULT 1109

ADH67245/c  
ID ADH67245 standard; DNA; 20 BP.

XX AC ADH67245;

XX DT 25-MAR-2004 (first entry)

XX DE Human glucocorticoid receptor-specific antisense oligonucleotide #4079.  
XX KW antisense oligonucleotide; glucocorticoid receptor; infection;  
XX inflammation; tumour formation; diabetes; obesity;  
XX KW cardiovascular disorder; hyperlipidaemia; Cushing's syndrome; human; ss;  
XX phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.

XX OS Homo sapiens.

XX PN WO2003099215-A2.

XX PD 04-DEC-2003.

XX PF 20-MAY-2003; 2003WO-US016084.

XX PR 20-MAY-2002; 2002US-0381857P.

XX PA (PHAA ) PHARMACIA CORP.

XX PI Crosby SD, Nalseth AE;

XX DR WPI; 2004-035034/03.

XX PT New antisense compound targeted to a nucleic acid molecule encoding  
XX mammalian glucocorticoid receptor, useful for treating diabetes, obesity,  
XX cardiovascular disorder, hyperlipidemia or Cushing's syndrome.

XX PS Claim 4; SEQ ID NO 4079; 985pp; English.

XX CC The invention comprises an antisense oligonucleotides that are targeted  
XX to nucleic acids encoding a mammalian glucocorticoid receptor. The  
XX antisense oligonucleotides of the invention are useful for preventing or  
XX delaying infection, inflammation or tumour formation. The antisense  
XX oligonucleotides are also useful for treating diabetes, obesity,  
XX cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The  
XX present DNA sequence represents an antisense oligonucleotide that targets  
XX the human glucocorticoid receptor gene. NOTE: The present sequence  
XX contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothioate backbone.

XX SQ Sequence 20 BP; 5 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 49 CCAGCAGTGTGACTGCTGA 67  
Db 19 CCAGCAGTGTGCTGCTCA 1  
|||||

RESULT 1110

ADH54704/c  
ID ADH54704 standard; DNA; 20 BP.

XX AC ADH54704;

XX DT 25-MAR-2004 (first entry)

XX DE Human VEGF-C PCR primer #1.

XX KW human; ss; PCR; VEGF-C; cardiovascular disorder; atherosclerosis;  
XX diabetic retinopathy; autoimmune disorder; inflammatory disorder;  
XX KW vascular endothelial growth factor; primer.

XX OS Homo sapiens.

XX PN US2003232437-A1.

XX PD 18-DEC-2003.

XX PF 17-JUN-2002; 2002US-00173718.

XX PR 17-JUN-2002; 2002US-00173718.

XX PA (ISIS-) ISIS PHARM INC.

XX PI Zhang H, Dobie KW;

XX DR WPI; 2004-061284/06.

XX PT New compounds, particularly antisense oligonucleotides targeted to a  
XX nucleic acid encoding vascular endothelial growth factor-C (VEGF-C),  
XX useful for treating atherosclerosis, diabetic retinopathy, or  
XX inflammatory disorders.

XX PS Example 13; SEQ ID NO 5; 83pp; English.

XX CC The invention relates to a compound targeted to and which specifically  
XX hybridises with a nucleic acid molecule encoding VEGF-C, and inhibits the  
XX expression of VEGF-C. The compound, composition and methods are useful  
XX for treating a disease or condition associated with VEGF-C, such as a  
XX cardiovascular disorder e.g. atherosclerosis or diabetic retinopathy or  
XX an autoimmune or inflammatory disorder. They are also useful in research  
XX and diagnostics for modulating the expression of VEGF-C. The present  
XX sequence represents a human VEGF-C PCR primer.

XX SQ Sequence 20 BP; 7 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1553 GGCTCTCGTCGATGCTGA 1571

Db 19 GGCTCTGTTGCTGCTGA 1  
|||||

RESULT 1111

ADH50654  
ID ADH50654 standard; DNA; 20 BP.

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AC ADH50654;
XX
XX 25-MAR-2004 (first entry)
XX
XX Human IRAK-1 DNA, antisense oligonucleotide #48.
XX
XX Antisense therapy; human; interleukin-1 receptor-associated kinase-1;
XX IL-1 receptor-associated kinase-1; IRAK-1;
XX hyperproliferative disorder e.g.; cancer; autoimmune disorder;
XX altered bone metabolism or inflammation; cytostatic; immunosuppressive;
XX osteopathic; antiinflammatory; phosphorothioate; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /*tag= a
XX /note= "This oligonucleotide has a phosphorothioate
XX backbone and 2'-methoxyethyl (2'-MOE) wings at the 5'
XX and 3' ends, which are 5 nucleotides in length at each
XX end. All cytidine residues are 5-methylcytidines"
XX
XX US2003228690-A1.
XX
XX 11-DEC-2003.
XX
XX 10-JUN-2002; 2002US-00167034.
XX
XX 10-JUN-2002; 2002US-00167034.
XX (ISIS-) ISIS PHARM INC.
XX
XX Baker BF, Freier SM, Dobie KW;
XX WPI; 2004-052028/05.
XX
XX New compound having a sequence targeted to a nucleic acid encoding IL-1
XX receptor-associated kinase-1, useful for preparing a composition for
XX treating hyperproliferative or autoimmune disorder or inflammation.
XX
XX Example 15; SEQ ID NO 61; 66pp; English.
XX
XX The present invention relates to antisense compounds targeted to a
XX nucleic acid encoding interleukin-1 (IL-1) receptor-associated kinase-1
XX (IRAK-1). The antisense compound comprises an antisense oligonucleotide
XX that specifically hybridises with the nucleic acid and inhibits the
XX expression of IRAK-1. The antisense oligonucleotide is a chimeric
XX oligonucleotide. The antisense oligonucleotide comprises at least one
XX modified internucleoside linkage, preferably a phosphorothioate linkage.
XX It also comprises at least one modified sugar moiety, preferably a 2'-O-
XX methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
XX comprises at least one modified nucleobase, preferably a 5-
XX methylcytosine. The antisense oligonucleotides are useful for the
XX treatment of diseases such as hyperproliferative disorders, e.g. cancer,
XX autoimmune disorders, altered bone metabolism, and inflammation. The
XX present sequence represents an antisense oligonucleotide used in the
XX examples of the present invention.
XX
XX Sequence 20 BP; 1 A; 7 C; 7 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 928 CAGCTGCTCCGGTGCTGG 946
XX ||||| |||||
XX 2 CAGCTGCTCTGCTGCTGG 20
XX
XX RESULT 1112
XX ADH50720/c
XX ID ADH50720 standard; DNA; 20 BP.

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XX ADH50720;
XX
XX 25-MAR-2004 (first entry)
XX
XX Human IRAK-1 DNA target sequence #42.
XX
XX Antisense therapy; human; interleukin-1 receptor-associated kinase-1;
XX IL-1 receptor-associated kinase-1; IRAK-1;
XX hyperproliferative disorder e.g.; cancer; autoimmune disorder;
XX altered bone metabolism or inflammation; cytostatic; immunosuppressive;
XX osteopathic; antiinflammatory; ds.
XX
XX Homo sapiens.
XX
XX US2003228690-A1.
XX
XX 11-DEC-2003.
XX
XX 10-JUN-2002; 2002US-00167034.
XX
XX 10-JUN-2002; 2002US-00167034.
XX (ISIS-) ISIS PHARM INC.
XX
XX Baker BF, Freier SM, Dobie KW;
XX WPI; 2004-052028/05.
XX
XX New compound having a sequence targeted to a nucleic acid encoding IL-1
XX receptor-associated kinase-1, useful for preparing a composition for
XX treating hyperproliferative or autoimmune disorder or inflammation.
XX
XX Example 15; SEQ ID NO 127; 66pp; English.
XX
XX The present invention relates to antisense compounds targeted to a
XX nucleic acid encoding interleukin-1 (IL-1) receptor-associated kinase-1
XX (IRAK-1). The antisense compound comprises an antisense oligonucleotide
XX that specifically hybridises with the nucleic acid and inhibits the
XX expression of IRAK-1. The antisense oligonucleotide is a chimeric
XX oligonucleotide. The antisense oligonucleotide comprises at least one
XX modified internucleoside linkage, preferably a phosphorothioate linkage.
XX It also comprises at least one modified sugar moiety, preferably a 2'-O-
XX methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide further
XX comprises at least one modified nucleobase, preferably a 5-
XX methylcytosine. The antisense oligonucleotides are useful for the
XX treatment of diseases such as hyperproliferative disorders, e.g. cancer,
XX autoimmune disorders, altered bone metabolism, and inflammation. The
XX present sequence represents a human IRAK-1 DNA target sequence for an
XX antisense oligonucleotide.
XX
XX Sequence 20 BP; 5 A; 7 C; 7 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 928 CAGCTGCTCCGGTGCTGG 946
XX ||||| |||||
XX 19 CAGCTGCTCTGCTGCTGG 1
XX
XX RESULT 1113
XX ADH61956
XX ID ADH61956 standard; DNA; 20 BP.
XX
XX ADH61956;
XX
XX 25-MAR-2004 (first entry)
XX
XX Panellus stypticus rDNA PCR primer ITS 2, SEQ ID 2.
XX
XX Basidiomycete; dioxin; ribosomal DNA; PCR; primer; ss.

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XX OS Panellus stypticus.
XX PN JP2003250520-A.
XX PD 09-SEP-2003.
XX PF 01-MAR-2002; 2002JP-00055681.
XX PR 01-MAR-2002; 2002JP-00055681.
XX PA (SAOC ) MERCIAN CORP.
XX PA (DOKU-) DOKURITSU GYOSEI HOJIN SANGYO GIJUTSU SO.
XX DR WPI; 2004-172258/17.
XX PT Degrading dioxin by using basidiomycete such as Panellus stypticus having
XX PT dioxin degrading activity.
XX PS Example 3; SEQ ID NO 2; 11pp; Japanese.
XX CC The present invention relates to a method (M1) for decomposing dioxin by
XX CC using decomposable basidiomycetes (Panellus stypticus). In (M1), the
XX CC basidiomycete is cultured in a first culture medium containing dioxin and
XX CC in a second culture medium not containing dioxin. The dioxin is added to
XX CC the second culture medium such that its concentration becomes equal to
XX CC the initial-stage concentration of the first culture medium. A reagent
XX CC destroying microbial cells is added to the culture medium after the
XX CC culture completion. The microbial cells are lysed and the residual dioxin
XX CC concentration of both the culture mediums are compared. The basidiomycete
XX CC involves selecting the microorganisms in which the residual dioxin
XX CC concentration of the first culture medium is less than the residual
XX CC dioxin concentration of the second culture medium. ADH61959-ADH61961 are
XX CC ribosomal DNAs from Panellus stypticus used to determine the genus of the
XX CC basidiomycetes used in the method of the invention. ADH61955-ADH61958 are
XX CC PCR primers used to amplify the rDNA sequences in an example from the
XX CC invention.
XX SQ Sequence 20 BP; 2 A; 6 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1549 CTTCGGTCTTCGTCGATGC 1567
Db ||||| ||||| |||||
2 CTGCGTCTTCATCGATGC 20

RESULT 1114
ADH61957/C
ID ADH61957 standard; DNA; 20 BP.
XX AC ADH61957;
XX AC ADH61957;
XX DT 25-MAR-2004 (first entry)
XX DE Panellus stypticus rDNA PCR primer ITS 3, SEQ ID 3.
XX KW Basidiomycete; dioxin; ribosomal DNA; PCR; primer; ss.
XX OS Panellus stypticus.
XX PN JP2003250520-A.
XX PD 09-SEP-2003.
XX PF 01-MAR-2002; 2002JP-00055681.
XX PR 01-MAR-2002; 2002JP-00055681.
XX PA (SAOC ) MERCIAN CORP.

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PA (DOKU-) DOKURITSU GYOSEI HOJIN SANGYO GIJUTSU SO.
XX WPI; 2004-172258/17.
XX PT Degrading dioxin by using basidiomycete such as Panellus stypticus having
XX PT dioxin degrading activity.
XX PS Example 3; SEQ ID NO 3; 11pp; Japanese.
XX CC The present invention relates to a method (M1) for decomposing dioxin by
XX CC using decomposable basidiomycetes (Panellus stypticus). In (M1), the
XX CC basidiomycete is cultured in a first culture medium containing dioxin and
XX CC in a second culture medium not containing dioxin. The dioxin is added to
XX CC the second culture medium such that its concentration becomes equal to
XX CC the initial-stage concentration of the first culture medium. A reagent
XX CC destroying microbial cells is added to the culture medium after the
XX CC culture completion. The microbial cells are lysed and the residual dioxin
XX CC concentration of both the culture mediums are compared. The basidiomycete
XX CC involves selecting the microorganisms in which the residual dioxin
XX CC concentration of the first culture medium is less than the residual
XX CC dioxin concentration of the second culture medium. ADH61959-ADH61961 are
XX CC ribosomal DNAs from Panellus stypticus used to determine the genus of the
XX CC basidiomycetes used in the method of the invention. ADH61955-ADH61958 are
XX CC PCR primers used to amplify the rDNA sequences in an example from the
XX CC invention.
XX SQ Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1549 CTTCGGTCTTCGTCGATGC 1567
Db ||||| ||||| |||||
19 CTGCGTCTTCATCGATGC 1

RESULT 1115
ADH15592
ID ADH15592 standard; DNA; 20 BP.
XX AC ADH15592;
XX DT 22-APR-2004 (first entry)
XX DE Human phosphodiesterase 4D antisense oligonucleotide #18.
XX KW cytostatic; cardiant; antiinflammatory; antimicrobial; antisense therapy;
XX KW phosphodiesterase inhibitor 4D; phosphodiesterase 4D; cancer;
XX KW cardiovascular disease; inflammation; infection; inflammation;
XX KW tumour formation; antisense technology; human; ss.
XX OS Homo sapiens.
XX EH Key Location/Qualifiers
XX FT modified_base 1..20
XX FT /*tag= b
XX FT /mod_base= OTHER
XX FT /note= "OTHER= Phosphorothioate backbone. All cytidines
XX FT are 5-methylcytidines"
XX FT modified_base 1..5
XX FT /*tag= a
XX FT /mod_base= OTHER
XX FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX FT modified_base 15..20
XX FT /*tag= c
XX FT /mod_base= OTHER
XX FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX PN US2003220273-A1.
XX PD 27-NOV-2003.

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XX 15-MAY-2002; 2002US-00146860.
PF
XX 15-MAY-2002; 2002US-00146860.
PR
XX (ISIS-) ISIS PHARM INC.
XX
XX Bennett CF, Dobie KW, Roach MP;
XX WPI; 2004-060214/06.
XX
XX New antisense compounds targeted to nucleic acid molecules encoding
PT phosphodiesterase 4D, useful for treating diseases associated with
PT expression of phosphodiesterase 4D, e.g. cancer, cardiovascular disease
PT or inflammation.
XX
XX Example 15; SEQ ID NO 46; 72pp; English.
XX
XX The invention describes a compound 8-80 nucleobases in length targeted to
CC a nucleic acid molecule encoding phosphodiesterase 4D. The compound
CC specifically hybridizes with the nucleic acid molecule encoding
CC phosphodiesterase 4D and inhibits the expression of phosphodiesterase 4D,
CC or specifically hybridizes with at least an 8-nucleobase portion of an
CC active site on a nucleic acid molecule encoding phosphodiesterase 4D. The
CC antisense oligonucleotides and compounds are useful for modulating the
CC expression of phosphodiesterase 4D, and for treating diseases or
CC conditions associated with expression of phosphodiesterase 4D, e.g.
CC cancer, cardiovascular disease or inflammation. The antisense compounds
CC are also useful as research reagents and kits, or in diagnostic,
CC therapeutic and prophylaxis applications, e.g. to prevent or delay
CC infection, inflammation or tumour formation. This sequence represents a
CC human phosphodiesterase 4D antisense oligonucleotide.
XX
XX Sequence 20 BP; 5 A; 6 C; 7 G; 2 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 501 GCGTCAGGGCTACCTGGAG 519
DB 2 GCGTCAGGGCTACCGAG 20
RESULT 1116
ADI26921/c
ID ADI26921 standard; DNA; 20 BP.
XX
XX ADI26921;
XX
XX 22-APR-2004 (first entry)
XX
XX Cyclin dependent kinase 4 antisense oligonucleotide #87.
DE
XX
XX cytostatic; antidiabetic; antiinfertility; gene therapy;
KW cyclin-dependent kinase 4; diabetes; infertility;
KW hyperproliferative disorder; cancer; antisense technology; human; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT are 5-methylcytidines"
FT modified_base 1..5
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FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
FT modified_base 15..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
```

```
FT
XX
XX US2004005567-A1.
XX
XX 08-JAN-2004.
XX
XX 02-JUL-2002; 2002US-00188779.
XX
XX 02-JUL-2002; 2002US-00188779.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Dean NM, Freier SM, Dobie KW;
XX WPI; 2004-081710/08.
XX
XX New antisense oligonucleotide, having a sequence targeted to a nucleic
PT acid encoding cyclin-dependent kinase 4, useful for preparing a
PT composition for treating diabetes, infertility or hyperproliferative
PT disorder, e.g., cancer.
XX
XX Example 15; SEQ ID NO 106; 90pp; English.
XX
XX The invention describes a new antisense oligonucleotide, having a
CC sequence comprising 8-80 bp targeted to a nucleic acid encoding cyclin-
CC dependent kinase 4, specifically hybridizes with the nucleic acid
CC encoding cyclin-dependent kinase 4 and inhibits expression of cyclin-
CC dependent kinase 4. The antisense oligonucleotide is useful for preparing
CC a composition for treating diabetes, infertility or hyperproliferative
CC disorder, e.g., cancer. This sequence represents a human cyclin dependent
CC kinase 4 antisense oligonucleotide.
XX
XX Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 687 CAACCTTGTCGCACTCAAG 705
DB 20 CCACCTTGTCGCTCAAG 2
RESULT 1117
ADI19193/c
ID ADI19193 standard; DNA; 20 BP.
XX
XX ADI19193;
XX
XX 22-APR-2004 (first entry)
XX
XX Human PCTAIRE protein kinase 2 antisense oligonucleotide #47.
DE
XX
XX gene therapy; antisense technology; PCTAIRE protein kinase 2;
KW neurological disorder; human; PCTAIRE protein kinase 2; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT are 5-methylcytidines"
FT modified_base 1..5
FT /*tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
FT modified_base 15..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
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PN US2003225256-A1.
XX
PD 04-DEC-2003.
XX
PF 31-MAY-2002; 2002US-00160787.
XX
PR 31-MAY-2002; 2002US-00160787.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Watt AT;
XX
DR WPI; 2004-022085/02.
XX
PT New antisense oligonucleotide, having a sequence targeted to a nucleic
PT acid encoding PCTAIRE protein kinase 2, useful for preparing a
PT composition for treating neurological disorders.
XX
PS Claim 1; SEQ ID NO 60; 58pp; English.
XX
CC The invention describes a new antisense oligonucleotide, having a
CC sequence comprising 8-80 bp targeted to a nucleic acid encoding PCTAIRE
CC protein kinase 2, that specifically hybridises with the nucleic acid
CC encoding PCTAIRE protein kinase 2 and having a sequence comprising 20 bp.
CC The antisense oligonucleotide is useful for preparing a composition for
CC treating e.g., neurological disorders. This sequence represents a human
CC PCTAIRE protein kinase 2 antisense oligonucleotide.
XX
SQ Sequence 20 BP; 4 A; 1 C; 8 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 988 CCCAGAACCTGCTCATCA 1006
Db 19 CCACAGAACCTCTCATTA 1

RESULT 1118
AD119201/c
ID AD119201 standard; DNA; 20 BP.
XX
AC AD119201;
XX
DT 22-APR-2004 (first entry)
XX
DE Human PCTAIRE protein kinase 2 antisense oligonucleotide #55.
XX
KW Gene therapy; antisense technology; PCTAIRE protein kinase 2;
KW neurological disorder; human; PCTAIRE protein kinase 2; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT are 5-methylcytidines"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
FT modified_base 15..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
PN US2003225256-A1.
XX
PD 04-DEC-2003.
XX

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PF 31-MAY-2002; 2002US-00160787.
XX
PR 31-MAY-2002; 2002US-00160787.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Watt AT;
XX
DR WPI; 2004-022085/02.
XX
PT New antisense oligonucleotide, having a sequence targeted to a nucleic
PT acid encoding PCTAIRE protein kinase 2, useful for preparing a
PT composition for treating neurological disorders.
XX
PS Claim 1; SEQ ID NO 68; 58pp; English.
XX
CC The invention describes a new antisense oligonucleotide, having a
CC sequence comprising 8-80 bp targeted to a nucleic acid encoding PCTAIRE
CC protein kinase 2, that specifically hybridises with the nucleic acid
CC encoding PCTAIRE protein kinase 2 and having a sequence comprising 20 bp.
CC The antisense oligonucleotide is useful for preparing a composition for
CC treating e.g., neurological disorders. This sequence represents a human
CC PCTAIRE protein kinase 2 antisense oligonucleotide.
XX
SQ Sequence 20 BP; 4 A; 4 C; 6 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1256 TAGGAAGCCCACTGAGGA 1274
Db 19 TAGGAATCCATCTCAGGA 1

RESULT 1119
AD119261
ID AD119261 standard; DNA; 20 BP.
XX
AC AD119261;
XX
DT 22-APR-2004 (first entry)
XX
DE Human PCTAIRE protein kinase 2 antisense oligonucleotide #115.
XX
KW Gene therapy; antisense technology; PCTAIRE protein kinase 2;
KW neurological disorder; human; PCTAIRE protein kinase 2; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT are 5-methylcytidines"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
FT modified_base 15..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
PN US2003225256-A1.
XX
PD 04-DEC-2003.
XX
PF 31-MAY-2002; 2002US-00160787.
XX
PR 31-MAY-2002; 2002US-00160787.
XX

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PA (ISIS-) ISIS PHARM INC.
XX
XX Watt AT;
XX WPI; 2004-022085/02.
XX
XX New antisense oligonucleotide, having a sequence targeted to a nucleic
XX acid encoding PCTAIRE protein kinase 2, useful for preparing a
XX composition for treating neurological disorders.
XX
XX Example 15; SEQ ID NO 128; 58pp; English.
XX
XX The invention describes a new antisense oligonucleotide, having a
XX sequence comprising 8-80 bp targeted to a nucleic acid encoding PCTAIRE
XX protein kinase 2, that specifically hybridises with the nucleic acid
XX encoding PCTAIRE protein kinase 2 and having a sequence comprising 20 bp.
XX The antisense oligonucleotide is useful for preparing a composition for
XX treating e.g., neurological disorders. This sequence represents a human
XX PCTAIRE protein kinase 2 antisense oligonucleotide.
XX
XX Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1256 TAGGAACCCCACTGAGGA 1274
Db ||||| ||||| ||||| |||||
2 TAGGAACCTCACTCAGGA 20
RESULT 1120
ADI19259
ID ADI19259 standard; DNA; 20 BP.
XX
XX AC ADI19259;
XX
XX 22-APR-2004 (first entry)
XX
XX Human PCTAIRE protein kinase 2 antisense oligonucleotide #113.
XX
XX gene therapy; antisense technology; PCTAIRE protein kinase 2;
XX neurological disorder; human; PCTAIRE protein kinase 2; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT are 5-methylcytidines"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
FT modified_base 15..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
XX US2003225256-A1.
XX
XX 04-DEC-2003.
XX
XX 31-MAY-2002; 2002US-00160787.
XX
XX 31-MAY-2002; 2002US-00160787.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Watt AT;
XX
XX
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DR WPI; 2004-022085/02.
XX
XX New antisense oligonucleotide, having a sequence targeted to a nucleic
XX acid encoding PCTAIRE protein kinase 2, useful for preparing a
XX composition for treating neurological disorders.
XX
XX Example 15; SEQ ID NO 126; 58pp; English.
XX
XX The invention describes a new antisense oligonucleotide, having a
XX sequence comprising 8-80 bp targeted to a nucleic acid encoding PCTAIRE
XX protein kinase 2, that specifically hybridises with the nucleic acid
XX encoding PCTAIRE protein kinase 2 and having a sequence comprising 20 bp.
XX The antisense oligonucleotide is useful for preparing a composition for
XX treating e.g., neurological disorders. This sequence represents a human
XX PCTAIRE protein kinase 2 antisense oligonucleotide.
XX
XX Sequence 20 BP; 4 A; 3 C; 4 G; 9 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1172 GCATCTTCTATGAGATGGC 1190
Db ||||| ||||| ||||| |||||
1 GCATTTTCTTGAATGGC 19
RESULT 1121
ADI19198/c
ID ADI19198 standard; DNA; 20 BP.
XX
XX AC ADI19198;
XX
XX 22-APR-2004 (first entry)
XX
XX Human PCTAIRE protein kinase 2 antisense oligonucleotide #52.
XX
XX gene therapy; antisense technology; PCTAIRE protein kinase 2;
XX neurological disorder; human; PCTAIRE protein kinase 2; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT are 5-methylcytidines"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
FT modified_base 15..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
XX US2003225256-A1.
XX
XX 04-DEC-2003.
XX
XX 31-MAY-2002; 2002US-00160787.
XX
XX 31-MAY-2002; 2002US-00160787.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Watt AT;
XX
XX WPI; 2004-022085/02.
XX
XX New antisense oligonucleotide, having a sequence targeted to a nucleic
XX acid encoding PCTAIRE protein kinase 2, useful for preparing a
```

PT composition for treating neurological disorders.  
XX  
PS Claim 1; SEQ ID NO 65; 58pp; English.  
XX  
CC The invention describes a new antisense oligonucleotide, having a  
CC sequence comprising 8-80 bp targeted to a nucleic acid encoding PCTAIRE  
CC protein kinase 2, that specifically hybridises with the nucleic acid  
CC encoding PCTAIRE protein kinase 2 and having a sequence comprising 20 bp.  
CC The antisense oligonucleotide is useful for preparing a composition for  
CC treating e.g., neurological disorders. This sequence represents a human  
CC PCTAIRE protein kinase 2 antisense oligonucleotide.  
XX  
SQ Sequence 20 BP; 9 A; 4 C; 3 G; 4 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
Qy 1172 GCATCTTCTATGAGATGGC 1190  
Db 20 GCATTCTTGAATGGC 2  
  
RESULT 1122  
AD119255  
ID AD119255 standard; DNA; 20 BP.  
XX  
AC AD119255;  
XX  
DT 22-APR-2004 (first entry)  
XX  
DE Human PCTAIRE protein kinase 2 antisense oligonucleotide #109.  
XX  
KW gene therapy; antisense technology; PCTAIRE protein kinase 2;  
KW neurological disorder; human; PCTAIRE protein kinase 2; ss.  
XX  
OS Homo sapiens.  
XX  
XX  
XX Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "OTHER= Phosphorothioate backbone. All cytidines  
FT are 5-methylcytidines"  
FT modified\_base 1..5  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 15..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"  
XX  
PN US2003225256-A1.  
XX  
XX 04-DEC-2003.  
PD  
XX  
XX 31-MAY-2002; 2002US-00160787.  
EF  
XX  
XX 31-MAY-2002; 2002US-00160787.  
PR  
XX  
XX (ISIS-) ISIS PHARM INC.  
PA  
XX  
XX Watt AT;  
PI  
XX  
XX WPI; 2004-022085/02.  
DR  
XX  
XX New antisense oligonucleotide, having a sequence targeted to a nucleic  
PT acid encoding PCTAIRE protein kinase 2, useful for preparing a  
PT composition for treating neurological disorders.  
XX  
PS Example 15; SEQ ID NO 122; 58pp; English.  
XX

CC The invention describes a new antisense oligonucleotide, having a  
CC sequence comprising 8-80 bp targeted to a nucleic acid encoding PCTAIRE  
CC protein kinase 2, that specifically hybridises with the nucleic acid  
CC encoding PCTAIRE protein kinase 2 and having a sequence comprising 20 bp.  
CC The antisense oligonucleotide is useful for preparing a composition for  
CC treating e.g., neurological disorders. This sequence represents a human  
CC PCTAIRE protein kinase 2 antisense oligonucleotide.  
XX  
SQ Sequence 20 BP; 7 A; 8 C; 1 G; 4 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
Qy 988 CCCAGAACCTGCTCATCA 1006  
Db 2 CCACAGAACCTCTCATTA 20  
  
RESULT 1123  
ADK00650/C  
ID ADK00650 standard; DNA; 20 BP.  
XX  
AC ADK00650;  
XX  
DT 06-MAY-2004 (first entry)  
XX  
DE Primer of the invention #27.  
XX  
KW cancer; Cytostatic; cancer; ds; HOMO; ss; primer.  
XX  
OS Synthetic.  
XX  
FN WO2004014946-A1.  
XX  
PD 19-FEB-2004.  
XX  
PF 07-AUG-2003; 2003WO-CN000639.  
XX  
PR 07-AUG-2002; 2002CN-00136400.  
PR 16-SEP-2002; 2002CN-00137000.  
PR 16-SEP-2002; 2002CN-00137009.  
PR 20-NOV-2002; 2002CN-00145435.  
XX  
PA (NEWO-) NEWORGEN LTD.  
XX  
XX Yang S, Gu J;  
XX WPI; 2004-191733/18.  
XX  
XX Novel human protein with cancer-suppressing function, encoded  
PT polynucleotide and antagonist, applicable in diagnosis and treatment of  
PT various diseases e.g. cancer.  
XX  
XX Example 1; SEQ ID NO 73; 80pp; Chinese.  
XX  
XX The present invention relates to an isolated human protein with cancer-  
CC suppressing function (HOMO). The protein, its encoded polynucleotide and  
CC antagonist are applicable in diagnosis and treatment of various diseases  
CC e.g. cancer. The present sequence represents a primer of the invention.  
XX  
SQ Sequence 20 BP; 3 A; 5 C; 6 G; 6 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
Qy 963 GAAGTGCTACACCGAGAC 981  
Db 20 GAAGTGCTACTCCAAGCC 2  
  
RESULT 1124



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XX PR 17-MAY-2002; 2002US-0381463P.
XX PA (USSH ) US DEPT HEALTH & HUMAN SERVICES.
XX PI Morrison CU, Hinrikson HP;
XX XX WPI; 2004-022871/02.
XX DR
XX PT Use of internal transcribed spacer 1 nucleic acid sequences, for
XX PT distinguishing species of Aspergillus from one another, or detecting the
XX PT presence of an Aspergillus species or strain of a species in a biological
XX PT sample.
XX PS Disclosure; SEQ ID NO 32; 56pp; English.
XX CC The invention relates to a method for distinguishing species of
XX CC Aspergillus from one another, comprising detecting differences in two or
XX CC more internal transcribed spacer (ITS), i.e. ITS1-V1, ITS-V2, ITS-V3, ITS
XX CC -V4 and ITS-V5, nucleic acid sequences of Aspergillus. The internal
XX CC transcribed spacer 1 nucleic acid sequences are useful for distinguishing
XX CC species of Aspergillus from one another, or for detecting the presence of
XX CC an Aspergillus species in a biological sample. In an example from the
XX CC invention, a biological sample was obtained from an infected subject, and
XX CC the fungus was cultured for the growth of Aspergillus, followed by
XX CC isolation of fungal DNA. The universal pairs internal transcribed spacer
XX CC (ITS)5 and ITS2, ITS5 and ITS4, ITS1 and ITS2, or ITS1 and ITS4 were
XX CC added to the reaction mixture to amplify the fungal DNA present in the
XX CC mixture. PCR products generated with the primer pairs were purified, and
XX CC the purified products were sequenced on both strands using the same
XX CC primers as initially used for PCR amplification. Sequencing products were
XX CC purified and analysed on an automated capillary DNA sequencer. A total of
XX CC 46 ITS1 consensus sequences ranging in length from 142-187 nucleotides
XX CC were compiled. Overall, 5 regions with significant interspecies
XX CC variability in length and sequence were recognised. The current sequence
XX CC represents the nucleic acid sequence of a fungal universal forward
XX CC primer.
XX SQ Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1549 CTTCGGTCTTCGTCATGC 1567
Db 19 CTGCGTCTTCATCGATGC 1

RESULT 1127
ADL06765/c
ID ADL06765 standard; DNA; 20 BP.
AC ADL06765;
XX
XX 06-MAY-2004 (first entry)
XX
XX Factor VII variant allele-specific probe/PCR primer F710G, SEQ 36.
XX
XX Human; factor VII; FVII; chromosome 13q34-qter; allelic variation;
XX plasma stability; function; single nucleotide polymorphism; SNP;
XX insertion; predisposition; cardiovascular disease; detection; diagnosis;
XX patient-specific treatment; cardiovascular disorder; thrombotic disorder;
XX thrombosis; haemostatic; thrombolytic; allele-specific; PCR; primer;
XX probe; ss.
XX
XX Homo sapiens.
XX
XX WO2004011675-A2.
XX
XX 05-FEB-2004.
XX
XX 23-JUL-2003; 2003WO-ES000379.

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XX PR 25-JUL-2002; 2002ES-00001749.
XX PA (PRIV-) FUNDACIO PRIVADA I INST RECERCA LHOSPITA.
XX PI Fontcuberta Boj J, Soria Fernandez JM;
XX XX WPI; 2004-143875/14.
XX DR
XX PT New allelic variants of the factor VII gene, useful in diagnosing
XX PT predisposition to cardiovascular disease and for treatment of e.g.
XX PT coagulation disorders and thrombosis.
XX PS Claim 7; SEQ ID NO 36; 32pp; Spanish.
XX CC The invention relates to a human factor VII (FVII) polynucleotide
XX CC sequence including at least one allelic variation that affects the
XX CC stability and/or function of the gene or of the encoded factor VII. 49
XX CC factor VII allelic variations, most of which are single nucleotide
XX CC polymorphisms (SNPs), but which also include insertions, are tabulated in
XX CC the specification and are indicative of a predisposition to
XX CC cardiovascular disease. Factor VII activates the coagulation cascade
XX CC after it binds to tissue factor, and the gene encoding it is located on
XX CC chromosome 13q34-qter. The invention also relates to 36 oligonucleotide
XX CC probes specific for the variant factor VII alleles (ADL06730-ADL06765), a
XX CC process for testing for the presence of any of the 49 variations, and a
XX CC diagnostic kit which contains the allele-specific oligonucleotides. The
XX CC method of the invention can be used to detect the presence of variant
XX CC factor VII alleles, and thus to determine whether an individual has a
XX CC predisposition to cardiovascular disorders. Analysis of the factor VII
XX CC allelic variations will permit the design of patient-specific treatments
XX CC for factor VII-related disorders. Additionally, factor VII proteins
XX CC containing at least one allelic variation of the invention (e.g., one
XX CC which increases plasma stability) are useful as pharmaceuticals for
XX CC treating disorders of blood coagulation or thrombosis. The present
XX CC sequence represents a specifically claimed allelic variant-specific
XX CC oligonucleotide probe, which was also used as a PCR primer in an example
XX CC of the invention.
XX SQ Sequence 20 BP; 3 A; 5 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 701 TCAGGAGATCAGACTGGA 719
Db 19 TCAAAGACCTCAGACTGGA 1

RESULT 1128
ADJ45621/c
ID ADJ45621 standard; DNA; 20 BP.
XX
XX AC ADJ45621;
XX
XX 06-MAY-2004 (first entry)
XX
XX Human GPCR 12 antisense oligonucleotide ISIS238089.
XX
XX Human; ss; antisense gene therapy; G protein-coupled receptor 12;
XX GPCR 12; appetite control; nootropic; neuroprotective;
XX neuroendocrine system disorder; signal transduction disorder;
XX neuronal disorder; motor disorder; sensory disorder;
XX psychiatric disorder; behavioural disorder.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= b
XX /mod base= OTHER
XX /note= "All cytidines are 5-methylcytidines and all

```

```
FT linkages are phosphorothioate linkages"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl-nucleotide"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl-nucleotide"
XX
PN US2004023384-A1.
XX
PD 05-FEB-2004.
XX
PP 31-JUL-2002; 2002US-00211908.
XX
PR 31-JUL-2002; 2002US-00211908.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Monia BP, Dobie KW;
XX
PI WPI; 2004-142665/14.
XX
XX
XX New compounds, particularly antisense oligonucleotides targeted to a
XX nucleic acid encoding G protein-coupled receptor 12 (GPCR-12), useful for
XX treating diseases of the neuroendocrine system.
XX
XX Example 15; SEQ ID NO 39; 54pp; English.
XX
XX The invention relates to a compound 8-80 nucleobases in length targeted
XX to, and which specifically hybridises with a nucleic acid molecule
XX encoding GPCR-12 (G protein-coupled receptor 12), and inhibits the
XX expression of GPCR-12, i.e. an antisense oligonucleotide (AS). Also are a
XX compound 8-80 nucleobases in length that specifically hybridises with at
XX least an 8-nucleobase portion of an active site on a nucleic acid
XX molecule encoding GPCR-12, a composition comprising the compound and a
XX carrier or diluent, inhibiting the expression of GPCR-12 in cells or
XX tissues (by contacting the cells or tissues with the compound so that
XX expression of GPCR-12 is inhibited), treating an animal having a disease
XX or condition associated with GPCR-12 (by administering to the animal a
XX therapeutic or prophylactic amount of the compound so that expression of
XX GPCR-12 is inhibited) and screening an antisense compound (by contacting
XX a preferred target region of a nucleic acid molecule encoding GPCR-12
XX with one or more candidate antisense compounds comprising at least an 8-
XX nucleobase portion that is complementary to the preferred target region
XX and selecting for one or more candidate antisense compounds that inhibit
XX the expression of a nucleic acid encoding GPCR-12). The compound,
XX composition and methods are useful for treating a disease or condition
XX associated with GPCR-12, such as a disease or conditions involving the
XX neuroendocrine system, or aberrant signal transduction in brain tissue,
XX or a disease or condition involving the neuronal, motor, sensory,
XX psychiatric or behavioural disorder and in appetite control. They are
XX also useful in research and diagnostics for modulating the expression of
XX GPCR-12. The present sequence is an antisense oligonucleotide targeting
XX human GPCR 12 mRNA.
XX
SQ Sequence 20 BP; 7 A; 3 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1706 TGCCTACCTGCTTACGACCA 1724
DB 19 TGCCTACCTGCTTACGTC A 1

RESULT 1129
ADJ22655/c
ID ADJ22655 standard; DNA; 20 BP.
XX
XX ADJ22655;
AC
```

```
XX
XX 20-MAY-2004 (first entry)
XX
XX Human endothelial lipase antisense oligonucleotide, SEQ ID 1053.
XX
XX Antilipemic; Cardiovascular; Analgesic; Antianginal; Antisense therapy;
XX Human; Endothelial Lipase; dyslipidaemia; high density lipoprotein; HDL;
XX Cardiovascular disorder; metabolic syndrome X; ss.
XX
XX Homo sapiens.
XX
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= a
XX /mod_base= OTHER
XX /note= "This oligonucleotide has a phosphorothioate
XX backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',
XX and 3' ends, which are 4 nucleotides in length. Also all
XX cytidine residues are 5-methylcytidines"
XX
XX WO2004009541-A2.
XX
XX 29-JAN-2004.
XX
XX 18-JUL-2003; 2003WO-US022410.
XX
XX 19-JUL-2002; 2002US-0397106P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Bhat BG;
XX
XX WPI; 2004-132912/13.
XX
XX New antisense oligonucleotide for modulating endothelial lipase
XX expression, for diagnosing, preventing or treating e.g. dyslipidemia, low
XX high density lipoprotein or cardiovascular disorders.
XX
XX Claim 3; SEQ ID NO 1053; 1007pp; English.
XX
XX The present invention relates to antisense oligonucleotides (ADJ21603-
XX ADJ25510) targeted to human Endothelial Lipase (EL) coding sequence
XX (ADJ25517), where the antisense oligonucleotide specifically hybridises
XX with and inhibits the expression of EL. The antisense oligonucleotides
XX are useful for modulating the expression of endothelial lipase in cells
XX or tissues to treat diseases associated with EL expression, such as
XX dyslipidaemia, low high density lipoprotein (HDL), cardiovascular
XX disorder or metabolic syndrome X. In addition, the oligonucleotides are
XX used for diagnostics, prophylaxis, or as research reagents or kits.
XX
XX Sequence 20 BP; 5 A; 2 C; 10 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1689 CTTCCCTGCTTACTCTCTG 1707
DB 20 CTTCCCGAGCTCACTCTCTG 2

RESULT 1130
ADJ22405/c
ID ADJ22405 standard; DNA; 20 BP.
XX
XX ADJ22405;
AC
XX
XX 20-MAY-2004 (first entry)
XX
XX Human endothelial lipase antisense oligonucleotide, SEQ ID 803.
XX
XX Antilipemic; Cardiovascular; Analgesic; Antianginal; Antisense therapy;
AC
```



KW Human; Endothelial Lipase; dyslipidaemia; high density lipoprotein; HDL;  
 KW cardiovascular disorder; metabolic syndrome X; ss.  
 OS Homo sapiens.  
 OS Synthetic.  
 XX Key Location/Qualifiers  
 FH modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "This oligonucleotide has a phosphorothioate  
 FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',  
 FT and 3' ends, which are 4 nucleotides in length. Also all  
 FT cytidine residues are 5-methylcytidines"  
 FT  
 XX WO2004009541-A2.  
 PN 29-JAN-2004.  
 XX 18-JUL-2003; 2003WO-US022410.  
 XX 19-JUL-2002; 2002US-0397106P.  
 XX (PHAA ) PHARMACIA CORP.  
 PA Bhat BG;  
 PI WPI; 2004-132912/13.  
 DR New antisense oligonucleotide for modulating endothelial lipase  
 PT expression, for diagnosing, preventing or treating e.g. dyslipidemia, low  
 PT high density lipoprotein or cardiovascular disorders.  
 XX Claim 3; SEQ ID NO 803; 1007pp; English.  
 XX The present invention relates to antisense oligonucleotides (ADJ21603-  
 CC ADJ25510) targeted to human Endothelial Lipase (EL) coding sequence  
 CC (ADJ25517), where the antisense oligonucleotide specifically hybridises  
 CC with and inhibits the expression of EL. The antisense oligonucleotides  
 CC are useful for modulating the expression of endothelial lipase in cells  
 CC or tissues to treat diseases associated with EL expression, such as  
 CC dyslipidaemia, low high density lipoprotein (HDL), cardiovascular  
 CC disorder or metabolic syndrome X. In addition, the oligonucleotides are  
 CC used for diagnostics, prophylaxis, or as research reagents or kits.  
 XX Sequence 20 BP; 5 A; 3 C; 10 G; 2 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1689 CTCCTGCTTACTCTCTG 1707  
 Db 19 CTCCTGCTTACTCTCTG 1  
 RESULT 1131  
 ADJ25252/C  
 ID ADJ25252 standard; DNA; 20 BP.  
 XX AC ADJ25252;  
 XX 20-MAY-2004 (first entry)  
 XX Human endothelial lipase antisense oligonucleotide, SEQ ID 3650.  
 XX Antilipase; Cardiovascular; Analgesic; Antianginal; Antisense therapy;  
 KW Human; Endothelial Lipase; dyslipidaemia; high density lipoprotein; HDL;  
 KW cardiovascular disorder; metabolic syndrome X; ss.  
 XX Homo sapiens.  
 OS Synthetic.

FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "This oligonucleotide has a phosphorothioate  
 FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',  
 FT and 3' ends, which are 4 nucleotides in length. Also all  
 FT cytidine residues are 5-methylcytidines"  
 XX WO2004009541-A2.  
 PN 29-JAN-2004.  
 XX 18-JUL-2003; 2003WO-US022410.  
 XX 19-JUL-2002; 2002US-0397106P.  
 XX (PHAA ) PHARMACIA CORP.  
 PA Bhat BG;  
 PI WPI; 2004-132912/13.  
 DR New antisense oligonucleotide for modulating endothelial lipase  
 PT expression, for diagnosing, preventing or treating e.g. dyslipidemia, low  
 PT high density lipoprotein or cardiovascular disorders.  
 XX Claim 3; SEQ ID NO 3650; 1007pp; English.  
 XX The present invention relates to antisense oligonucleotides (ADJ21603-  
 CC ADJ25510) targeted to human Endothelial Lipase (EL) coding sequence  
 CC (ADJ25517), where the antisense oligonucleotide specifically hybridises  
 CC with and inhibits the expression of EL. The antisense oligonucleotides  
 CC are useful for modulating the expression of endothelial lipase in cells  
 CC or tissues to treat diseases associated with EL expression, such as  
 CC dyslipidaemia, low high density lipoprotein (HDL), cardiovascular  
 CC disorder or metabolic syndrome X. In addition, the oligonucleotides are  
 CC used for diagnostics, prophylaxis, or as research reagents or kits.  
 XX Sequence 20 BP; 2 A; 6 C; 6 G; 6 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1375 GACGGGCCGACCTCTCA 1393  
 Db 19 GAAGGGCCGACATCCACA 1  
 RESULT 1132  
 ADJ25455/C  
 ID ADJ25455 standard; DNA; 20 BP.  
 XX AC ADJ25455;  
 XX 20-MAY-2004 (first entry)  
 XX Human endothelial lipase antisense oligonucleotide, SEQ ID 3853.  
 XX Antilipase; Cardiovascular; Analgesic; Antianginal; Antisense therapy;  
 KW Human; Endothelial Lipase; dyslipidaemia; high density lipoprotein; HDL;  
 KW cardiovascular disorder; metabolic syndrome X; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX Key Location/Qualifiers  
 FH modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "This oligonucleotide has a phosphorothioate  
 FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',  
 FT and 3' ends, which are 4 nucleotides in length. Also all  
 FT cytidine residues are 5-methylcytidines"  
 XX WO2004009541-A2.  
 PN 29-JAN-2004.  
 XX 18-JUL-2003; 2003WO-US022410.  
 XX 19-JUL-2002; 2002US-0397106P.  
 XX (PHAA ) PHARMACIA CORP.  
 PA Bhat BG;  
 PI WPI; 2004-132912/13.  
 DR New antisense oligonucleotide for modulating endothelial lipase  
 PT expression, for diagnosing, preventing or treating e.g. dyslipidemia, low  
 PT high density lipoprotein or cardiovascular disorders.  
 XX Claim 3; SEQ ID NO 3650; 1007pp; English.  
 XX The present invention relates to antisense oligonucleotides (ADJ21603-  
 CC ADJ25510) targeted to human Endothelial Lipase (EL) coding sequence  
 CC (ADJ25517), where the antisense oligonucleotide specifically hybridises  
 CC with and inhibits the expression of EL. The antisense oligonucleotides  
 CC are useful for modulating the expression of endothelial lipase in cells  
 CC or tissues to treat diseases associated with EL expression, such as  
 CC dyslipidaemia, low high density lipoprotein (HDL), cardiovascular  
 CC disorder or metabolic syndrome X. In addition, the oligonucleotides are  
 CC used for diagnostics, prophylaxis, or as research reagents or kits.  
 XX Sequence 20 BP; 2 A; 6 C; 6 G; 6 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1375 GACGGGCCGACCTCTCA 1393  
 Db 19 GAAGGGCCGACATCCACA 1  
 RESULT 1132  
 ADJ25455/C  
 ID ADJ25455 standard; DNA; 20 BP.  
 XX AC ADJ25455;  
 XX 20-MAY-2004 (first entry)  
 XX Human endothelial lipase antisense oligonucleotide, SEQ ID 3853.  
 XX Antilipase; Cardiovascular; Analgesic; Antianginal; Antisense therapy;  
 KW Human; Endothelial Lipase; dyslipidaemia; high density lipoprotein; HDL;  
 KW cardiovascular disorder; metabolic syndrome X; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX Key Location/Qualifiers  
 FH modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "This oligonucleotide has a phosphorothioate  
 FT backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',  
 FT and 3' ends, which are 4 nucleotides in length. Also all  
 FT cytidine residues are 5-methylcytidines"



specifically hybridizes with and inhibits the expression of Nav1.3. The compound and composition are useful for treating a disease or condition associated with Nav1.3, e.g. pain including but not limited to neuropathic pain, post-herpetic neuralgia, chronic pain, lower back pain, diabetic neuropathy, trigeminal neuropathy, arthritic pain, acute pain, pain from burns, migraine headache, cluster headache, mild-to-moderate headache; seizure disorder such as childhood seizure disorder, including but not limited to neonatal or infantile epilepsy; or ataxia. The present sequence represents a chimeric phosphorothioate oligonucleotide with 2'MOE wings and a deoxy gap. Used during the antisense inhibition of human Nav1.3 expression, the oligonucleotides are designed to target different regions of the human Nav1.3 RNA.

SQ Sequence 20 BP; 8 A; 1 C; 6 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 1451 ATCCATTCTTCTCAGTCT 1469

Db 20 ATCCATTCTTCTCAGTCT 2

RESULT 1135

ADL00908/c

ID ADL00908 standard; DNA; 20 BP.

XX ADL00908;

AC ADL00908;

DT 20-MAY-2004 (first entry)

XX Human VEGF co-regulated chemokine-1 DNA antisense oligonucleotide #441.

XX Human; VEGF co-regulated chemokine-1; VCC-1;  
XX vascular endothelial growth factor; ss; antisense compound;  
XX phosphorothioate linkage; 2'-O-methoxyethyl sugar moiety;  
XX 5-methylcytosine; antisense oligonucleotide; diabetes;  
XX immunological disorder; cardiovascular disorder; neurological disorder;  
XX ischaemia; reperfusion injury; cancer; angiogenic disorder; haemangioma;  
XX tumour angiogenesis; rheumatoid arthritis; atherosclerosis; psoriasis;  
XX fibrosis; myocardial infarction; wound healing; bone fracture;  
XX cartilage damage; tissue regeneration; organ regeneration;  
XX periodontal disease; gut regeneration; atrial fibrillation.

XX Homo sapiens.

OS WO2004016224-A2.

XX WO2004016224-A2.

XX 26-FEB-2004.

XX 19-AUG-2003; 2003WO-US025891.

XX 19-AUG-2002; 2002US-040484P.

XX (PHAA ) PHARMACIA CORP.

XX Weinstein EJ;

XX WPI; 2004-192065/18.

XX New antisense compounds targeted to a nucleic acid molecule encoding  
XX vascular endothelial growth factor co-regulated chemokine-1 (VCC-1),  
XX useful for treating VCC-1-associated disorders, e.g. diabetes or a  
XX neurologic disorder.

PS Claim 4; SEQ ID NO 441; 336pp; English.

XX The invention relates to an antisense compound targeted to a nucleic acid  
XX molecule encoding human vascular endothelial growth factor (VEGF) co-  
XX regulated chemokine-1 (VCC-1), and which specifically hybridizes with and  
XX inhibits the expression of VCC-1. The invention also relates to a  
XX composition comprising the antisense compound, a method of inhibiting the

CC expression of VCC-1 in cells or tissues comprising contacting the cells  
CC or tissues with the antisense compound and a method of treating a human  
CC having a disease or condition associated with VCC-1 comprising  
CC administering the antisense compound to an animal to inhibit expression  
CC of VCC-1. The antisense oligonucleotide comprises at least one modified  
CC internucleoside linkage, preferably a phosphorothioate linkage. It also  
CC comprises at least one modified sugar moiety, preferably a 2'-O-  
CC methoxyethyl sugar moiety, and at least one modified nucleobase,  
CC specifically a 5-methylcytosine. The antisense oligonucleotide preferably  
CC is a chimeric oligonucleotide. The antisense compound is useful for  
CC treating a disease or condition associated with VCC-1, such as diabetes,  
CC an immunological disorder, a cardiovascular disorder, a neurological  
CC disorder, ischaemia, reperfusion injury, cancer or an angiogenic  
CC disorder, e.g. haemangioma, tumour angiogenesis, rheumatoid arthritis,  
CC atherosclerosis, psoriasis or fibrosis after myocardial infarction. VCC-1  
CC antisense oligonucleotides may also be used for wound healing, for  
CC healing of bone fractures and cartilage damage, for regeneration of  
CC tissues or organs, for treating periodontal diseases, for gut protection  
CC or regeneration, for treatment of lung or liver fibrosis or for  
CC management of atrial fibrillation. This sequence represents an antisense  
CC oligonucleotide targeted to DNA encoding the human VCC-1 polypeptide of  
CC the invention.

SQ Sequence 20 BP; 5 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Oy 1176 CTTCTATGAGATGGCCACA 1194

Db 19 CTTCTAGGATGGCTCCA 1

RESULT 1136

ADL00949/c

ID ADL00949 standard; DNA; 20 BP.

XX ADL00949;

XX 20-MAY-2004 (first entry)

XX Human VEGF co-regulated chemokine-1 DNA antisense oligonucleotide #482.

XX Human; VEGF co-regulated chemokine-1; VCC-1;  
XX vascular endothelial growth factor; ss; antisense compound;  
XX phosphorothioate linkage; 2'-O-methoxyethyl sugar moiety;  
XX 5-methylcytosine; antisense oligonucleotide; diabetes;  
XX immunological disorder; cardiovascular disorder; neurological disorder;  
XX ischaemia; reperfusion injury; cancer; angiogenic disorder; haemangioma;  
XX tumour angiogenesis; rheumatoid arthritis; atherosclerosis; psoriasis;  
XX fibrosis; myocardial infarction; wound healing; bone fracture;  
XX cartilage damage; tissue regeneration; organ regeneration;  
XX periodontal disease; gut regeneration; atrial fibrillation.

XX Homo sapiens.

OS WO2004016224-A2.

XX WO2004016224-A2.

XX 26-FEB-2004.

XX 19-AUG-2003; 2003WO-US025891.

XX 19-AUG-2002; 2002US-040484P.

XX (PHAA ) PHARMACIA CORP.

XX Weinstein EJ;

XX WPI; 2004-192065/18.

XX New antisense compounds targeted to a nucleic acid molecule encoding  
XX vascular endothelial growth factor co-regulated chemokine-1 (VCC-1),

PT useful for treating VCC-1-associated disorders, e.g. diabetes or a  
PT neurologic disorder.  
XX Claim 4; SEQ ID NO 482; 336pp; English.  
XX  
CC The invention relates to an antisense compound targeted to a nucleic acid  
CC molecule encoding human vascular endothelial growth factor (VEGF) co-  
CC regulated chemokine-1 (VCC-1), and which specifically hybridizes with and  
CC inhibits the expression of VCC-1. The invention also relates to a  
CC composition comprising the antisense compound, a method of inhibiting the  
CC expression of VCC-1 in cells or tissues comprising contacting the cells  
CC or tissues with the antisense compound and a method of treating a human  
CC having a disease or condition associated with VCC-1 comprising  
CC administering the antisense compound to an animal to inhibit expression  
CC of VCC-1. The antisense oligonucleotide comprises at least one modified  
CC internucleoside linkage, preferably a phosphorothioate linkage. It also  
CC comprises at least one modified sugar moiety, preferably a 2'-O-  
CC methoxyethyl sugar moiety, and at least one modified nucleobase,  
CC specifically a 5-methylcytosine. The antisense oligonucleotide preferably  
CC is a chimeric oligonucleotide. The antisense compound is useful for  
CC treating a disease or condition associated with VCC-1, such as diabetes,  
CC an immunological disorder, a cardiovascular disorder, a neurological  
CC disorder, ischaemia, reperfusion injury, cancer or an angiogenic  
CC disorder, e.g. haemangioma, tumour angiogenesis, rheumatoid arthritis,  
CC atherosclerosis, psoriasis or fibrosis after myocardial infarction. VCC-1  
CC antisense oligonucleotides may also be used for wound healing, for  
CC healing of bone fractures and cartilage damage, for regeneration of  
CC tissues or organs, for treating periodontal diseases, for gut protection  
CC or regeneration, for treatment of lung or liver fibrosis or for  
CC management of atrial fibrillation. This sequence represents an antisense  
CC oligonucleotide targeted to DNA encoding the human VCC-1 polypeptide of  
CC the invention.  
XX  
SQ Sequence 20 BP; 4 A; 7 C; 4 G; 5 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 1178 TCTATGAGATGCCACAGG 1196  
|||||  
Db 20 TCTAGGAGATGGCTCCAGG 2  
  
RESULT 1137  
ADN42701  
ID ADN42701 standard; DNA; 20 BP.  
XX  
AC ADN42701;  
XX  
DT 17-JUN-2004 (first entry)  
XX  
DE Human NOV42a/b RTQ-PCR reverse primer #1.  
XX  
KW Human; ss; NOVX; cancer; diabetes; cardiomyopathy; atherosclerosis; PCR;  
KW primer; RTQ PCR; real time quantitative PCR.  
XX  
XX Homo sapiens.  
OS  
XX  
XX US2004033493-A1.  
PN  
XX  
PD 19-FEB-2004.  
XX  
XX 31-JAN-2002; 2002US-00072012.  
PF  
XX 31-JAN-2001; 2001US-0265395P.  
PR 31-JAN-2001; 2001US-0265412P.  
PR 31-JAN-2001; 2001US-0265514P.  
PR 31-JAN-2001; 2001US-0265517P.  
PR 02-FEB-2001; 2001US-0266406P.  
PR 05-FEB-2001; 2001US-0266767P.  
PR 07-FEB-2001; 2001US-0266975P.  
PR 07-FEB-2001; 2001US-0267057P.  
PR

PR 08-FEB-2001; 2001US-0267459P.  
PR 09-FEB-2001; 2001US-0267823P.  
PR 15-FEB-2001; 2001US-0268974P.  
PR 26-FEB-2001; 2001US-0271664P.  
PR 27-FEB-2001; 2001US-0271839P.  
PR 27-FEB-2001; 2001US-0271855P.  
PR 02-MAR-2001; 2001US-0272046P.  
PR 14-MAR-2001; 2001US-0275925P.  
PR 14-MAR-2001; 2001US-0275947P.  
PR 14-MAR-2001; 2001US-0275950P.  
PR 14-MAR-2001; 2001US-0275989P.  
PR 15-MAR-2001; 2001US-0276448P.  
PR 15-MAR-2001; 2001US-0276450P.  
PR 16-MAR-2001; 2001US-0276397P.  
PR 16-MAR-2001; 2001US-0276768P.  
PR 20-MAR-2001; 2001US-0278652P.  
PR 26-MAR-2001; 2001US-0278775P.  
PR 26-MAR-2001; 2001US-0278788P.  
PR 29-MAR-2001; 2001US-0279882P.  
PR 29-MAR-2001; 2001US-0279884P.  
PR 30-MAR-2001; 2001US-0280147P.  
PR 11-APR-2001; 2001US-0282992P.  
PR 11-APR-2001; 2001US-0283083P.  
PR 20-APR-2001; 2001US-0285133P.  
PR 23-APR-2001; 2001US-0285749P.  
PR 03-MAY-2001; 2001US-0288327P.  
PR 03-MAY-2001; 2001US-0288504P.  
PR 29-MAY-2001; 2001US-0294047P.  
PR 30-MAY-2001; 2001US-0294473P.  
PR 08-JUN-2001; 2001US-0296964P.  
PR 18-JUN-2001; 2001US-0298959P.  
PR 19-JUN-2001; 2001US-0299324P.  
PR 13-AUG-2001; 2001US-0312020P.  
PR 16-AUG-2001; 2001US-0312889P.  
PR 16-AUG-2001; 2001US-0312908P.  
PR 21-AUG-2001; 2001US-0313930P.  
PR 28-AUG-2001; 2001US-0315470P.  
PR 31-AUG-2001; 2001US-0316447P.  
PR 07-SEP-2001; 2001US-0318115P.  
PR 07-SEP-2001; 2001US-0318118P.  
PR 12-SEP-2001; 2001US-0318740P.  
PR 19-SEP-2001; 2001US-0323379P.  
PR 18-OCT-2001; 2001US-0330245P.  
PR 18-OCT-2001; 2001US-0330308P.  
PR 14-NOV-2001; 2001US-0332701P.  
XX  
XX (TCHE/) TCHERNEV V T.  
PA (SPYT/) SPYTEK K A.  
PA (ZERR/) ZERRHUSEN B D.  
PA (PATT/) PATTURAJAN M.  
PA (SHIM/) SHIMKETS R A.  
PA (LILL/) LI L.  
PA (GANG/) GANGOLLI E A.  
PA (PADI/) PADIGARU M.  
PA (ANDE/) ANDERSON D W.  
PA (RAST/) RASTELLI L.  
PA (MILL/) MILLER C E.  
PA (GERL/) GERLACH V.  
PA (TAUF/) TAUFIER R J.  
PA (GUSE/) GUSEV V Y.  
PA (COLM/) COLMAN S D.  
PA (WOLE/) WOLENC A R.  
PA (PENA/) PENNA C E A.  
PA (FURT/) FURTAK K.  
PA (GROS/) GROSSE W M.  
PA (ALSO/) ALSOBROOK J P.  
PA (LEPL/) LEPLY D M.  
PA (RIEG/) RIEGER D K.  
PA (BURG/) BURGESS C E.  
XX  
XX Tchernev VT, Spytek KA, Zerhusen BD, Patturajan M, Shimkets RA;  
PI Li L, Gangolli EA, Padigar M, Anderson DW, Rastelli L, Miller CE;



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XX (GAAR/) GAARDE W.
PA (FREI/) FREIER S M.
PA (WATT/) WATT A T.
XX
XX Gaarde W, Freier SM, Watt AT;
XX
XX WPI; 2004-282460/26.
XX
XX New antisense oligonucleotide, having a sequence targeted to a nucleic
PT acid encoding PPAR-delta, useful for preparing a composition for treating
PT hyperproliferative disorder, e.g., cancer.
XX
XX Example 16; SEQ ID NO 124; Opp; English.
XX
XX This invention describes novel antisense oligonucleotides targeted to a
CC nucleic acid encoding PPAR-delta, which specifically hybridize to and
CC inhibit expression of PPAR-delta. The oligonucleotide specifically
CC hybridizes with at least an 8-nucleobase portion of an active site on the
CC nucleic acid molecule encoding the PPAR-delta and comprises at least one
CC modified internucleoside linkage, which is a 2'-O-methoxyethyl sugar
CC moiety or at least one modified nucleobase, which is a 5-methylcytosine.
CC The antisense oligonucleotides are useful for preparing a composition for
CC treating hyperproliferative disorders, e.g., cancer. The oligonucleotides
CC of the invention have cytostatic activity and can be used for gene
CC therapy.
XX
XX Sequence 20 BP; 5 A; 9 C; 3 G; 3 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 344 TGAAGATGGGGTCTGATGG 362
Db 19 TGCAGATGGGGCTGTGATGG 1
RESULT 1140
ADL34964
ID ADL34964 standard; DNA; 20 BP.
AC ADL34964;
XX
XX 17-JUN-2004 (first entry)
DT
DE Murine PPAR-delta target site ID 137749.
XX
XX antisense; PPAR-delta; hybridisation; inhibitor;
KW phosphorothioate linkage; 2'-O-methoxyethyl sugar; 5-methylcytosine;
KW hyperproliferative disorder; cancer; cytostatic; gene therapy; db.
XX
XX Mus sp.
OS
XX
XX US2004063129-A1.
PN
XX
XX 01-APR-2004.
PD
XX
XX 05-SEP-2003; 2003US-00655847.
PF
XX
XX 31-MAY-2002; 2002US-00160807.
PR
XX
XX (GAAR/) GAARDE W.
PA (FREI/) FREIER S M.
PA (WATT/) WATT A T.
XX
XX Gaarde W, Freier SM, Watt AT;
PI
XX
XX WPI; 2004-282460/26.
DR
XX
XX New antisense oligonucleotide, having a sequence targeted to a nucleic
PT acid encoding PPAR-delta, useful for preparing a composition for treating
PT
```

```
PT hyperproliferative disorder, e.g., cancer.
XX
XX Example 16; SEQ ID NO 262; Opp; English.
XX
XX This invention describes novel antisense oligonucleotides targeted to a
CC nucleic acid encoding PPAR-delta, which specifically hybridize to and
CC inhibit expression of PPAR-delta. The oligonucleotide specifically
CC hybridizes with at least an 8-nucleobase portion of an active site on the
CC nucleic acid molecule encoding the PPAR-delta and comprises at least one
CC modified internucleoside linkage, which is a 2'-O-methoxyethyl sugar
CC moiety or at least one modified nucleobase, which is a 5-methylcytosine.
CC The antisense oligonucleotides are useful for preparing a composition for
CC treating hyperproliferative disorders, e.g., cancer. The oligonucleotides
CC of the invention have cytostatic activity and can be used for gene
CC therapy.
XX
XX Sequence 20 BP; 3 A; 3 C; 9 G; 5 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 344 TGAAGATGGGGTCTGATGG 362
Db 2 TGCAGATGGGGCTGTGATGG 20
RESULT 1141
ADN48410/c
ID ADN48410 standard; DNA; 20 BP.
XX
XX ADN48410;
AC
XX
XX 01-JUL-2004 (first entry)
DT
DE Rat Jun N-terminal kinase 1 (JNK1) oligonucleotide #11.
XX
XX Rat; Jun N-terminal kinase; JNK; Jun N-terminal kinase 1; JNK1;
KW hyperproliferative disease; cell cycle progression;
KW protein phosphorylation; tumour growth; cancer; apoptosis;
KW prostate cancer; inflammation; fibrosis; fibrotic disease; scarring;
KW peritoneal adhesion; lung fibrosis; conjunctival scarring; cytostatic;
KW antiinflammatory; vulnery; ss.
XX
XX Rattus norvegicus.
OS
XX
XX US2004029823-A1.
PN
XX
XX 12-FEB-2004.
PD
XX
XX 15-JAN-2003; 2003US-00345444.
PF
XX
XX 13-AUG-1997; 97US-00910629.
PR
XX 07-AUG-1998; 98US-00130616.
PR 07-APR-1999; 99US-00287796.
PR 15-SEP-1999; 99US-00396902.
PR 31-JAN-2001; 2001US-00774809.
XX
XX (MCKA/) MCKAY R.
PA (DEAN/) DEAN N M.
PA (MONI/) MONIA B P.
PA (NERO/) NERO P S.
PA (GAAR/) GAARDE W A.
XX
XX Mckay R, Dean NM, Monia BP, Nero PS, Gaarde WA;
PI
XX
XX WPI; 2004-168941/16.
DR
XX
XX New oligonucleotides, which specifically hybridizes with Jun N-terminal
PT kinase protein, useful in diagnosing or treating inflammation, fibrosis
PT or a fibrotic or hyperproliferative disease or condition.
XX
```

Example 8; SEQ ID NO 121; 71pp; English.

PS The invention relates to an oligonucleotide comprising 8-30 nucleotides  
XX connected by covalent linkages, where the oligonucleotide has a sequence  
CC specifically hybridisable with a nucleic acid encoding a Jun N-terminal  
CC kinase (JNK) protein and modulates the expression of the JNK protein. The  
CC invention also relates to a pharmaceutical composition comprising the  
CC oligonucleotide(s) or its bioequivalent and a pharmaceutical carrier, a  
CC method of treating an animal having, suspected of having or prone to  
CC having a hyperproliferative disease, a method of modulating the  
CC expression of a JNK protein in cells or tissues, a method of modulating  
CC cell cycle progression, phosphorylation of a protein phosphorylated by a  
CC JNK protein and expression of a cellular protein that promotes one or  
CC more metastatic events in cultured cells or the cells of an animal, a  
CC method of inhibiting the growth of a tumour in an animal, a method of  
CC inducing apoptosis in a cell, a method of treating a human having a  
CC disease or condition characterised by a reduction in apoptosis and a  
CC method of treating an animal having a disease or condition associated  
CC with a JNK protein. The oligonucleotide and composition are useful in  
CC diagnosing or treating a disease or condition characterised by a  
CC reduction in apoptosis (e.g. prostate cancer), a disease or condition  
CC associated with a JNK protein (e.g. inflammation, fibrosis), a fibrotic  
CC disease or condition (e.g. scarring, peritoneal adhesions, lung fibrosis,  
CC conjunctival scarring) or a hyperproliferative disease or condition (e.g.  
CC cancer), or in inhibiting the growth of a tumour. This sequence  
CC represents a rat JNK1 oligonucleotide of the invention.

XX Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1424 GGATCTCCGACAGATGC 1442  
||||||| ||| ||| |||  
Db 20 GGATCTCCGTAGACGAGC 2

RESULT 1142  
ADM14468/c

ID ADM14468 standard; DNA; 20 BP.

XX AC ADM14468;

XX DT 01-JUL-2004 (first entry)

XX DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:655.

XX KW chimeric; antisense oligonucleotide; phosphorothioate; human;  
KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;  
KW microsomal prostaglandin E2 synthase inhibitor; cytostatic; antidiabetic;  
KW immunomodulator; cardiant; neuroprotective; antiinflammatory;  
KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;  
KW immunomodulatory; cardiovascular; gene therapy; inflammation;  
KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;  
KW reperfusion injury; ophthalmic disorder; immunological disorder;  
KW cardiovascular disorder; neurological disorder; ss.

OS Homo sapiens.  
OS Synthetic.

XX FH Key Location/Qualifiers

FT modified\_base 1..20 b

FT /\*tag=

FT /mod\_base= OTHER

FT /note= "phosphorothioate linkages and all cytidine  
FT residues are 5-methylcytidines"

FT modified\_base 1..5

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "2'-O-methoxyethyls"

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyls"

PN WO2004028458-A2.

PD 08-APR-2004.

PF 25-SEP-2003; 2003WO-US030374.

XX 25-SEP-2002; 2002US-0413549P.

XX (PHAA ) PHARMACIA CORP.

XX Gierse JK;

XX WPI; 2004-305094/28.

XX New antisense compound, having a sequence targeted to a nucleic acid  
PT encoding mPGES-1, useful for preparing a composition for treating e.g.,  
PT inflammation, Alzheimer's disease, arthritis, diabetes, cancer or  
PT ischaemia.

PS Claim 4; SEQ ID NO 655; 132pp; English.

XX The present sequence represents a chimeric antisense oligonucleotide  
CC targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The  
CC human mPGES-1 gene is located on chromosome 9, more specifically to  
CC 9q34.3. The present invention also describes: (1) antisense compounds,  
CC having a sequence comprising 8-30 bp targeted to a nucleic acid encoding  
CC mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and  
CC inhibits its expression; (2) a method of inhibiting the expression of  
CC mPGES-1 in cells or tissues; and (3) a method of treating an animal  
CC having a disease or condition associated with mPGES-1. mPGES-1 chimeric  
CC antisense oligonucleotides and antisense compounds have cytostatic,  
CC antidiabetic, immunomodulator, cardiant, neuroprotective,  
CC antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,  
CC ophthalmological, immunomodulatory and cardiovascular activities, and can  
CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound  
CC can be used for preparing a composition for treating a disease or  
CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's  
CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or  
CC ophthalmic, immunological, cardiovascular or neurological disorder.

XX Sequence 20 BP; 3 A; 8 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;

Best Local Similarity 84.2%; Pred. No. 8.7e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 505 GAGGGCTACCTGGAGAGC 523

Db 19 GTGGCCCTACCTGGGGAGC 1

RESULT 1143

ADM14758/c

ID ADM14758 standard; DNA; 20 BP.

XX AC ADM14758;

XX DT 01-JUL-2004 (first entry)

XX DE Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:945.

XX KW chimeric; antisense oligonucleotide; phosphorothioate; human;  
KW microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;  
KW microsomal prostaglandin E2 synthase inhibitor; cytostatic; antidiabetic;  
KW immunomodulator; cardiant; neuroprotective; antiinflammatory;  
KW neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;  
KW immunomodulatory; cardiovascular; gene therapy; inflammation;  
KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;  
KW reperfusion injury; ophthalmic disorder; immunological disorder;  
KW cardiovascular disorder; neurological disorder; ss.

```

XX Homo sapiens.
OS Synthetic.
XX
FH Key modified_base Location/Qualifiers
FT 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "phosphorothioate linkages and all cytidine
FT residues are 5-methylcytidines"
FT modified_base
FT 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls"
FT modified_base
FT 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-O-methoxyethyls"
XX
PN WO2004028458-A2.
XX
XX 08-APR-2004.
XX
XX 25-SEP-2003; 2003WO-US030374.
XX
XX 25-SEP-2002; 2002US-0413549P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Gierse JK;
XX
XX WPI; 2004-305094/28.
XX
XX New antisense compound, having a sequence targeted to a nucleic acid
XX encoding mPGES-1, useful for preparing a composition for treating e.g.,
XX inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
XX ischemia.
XX
XX Claim 4; SEQ ID NO 945; 132pp; English.
XX
XX The present sequence represents a chimeric antisense oligonucleotide
XX targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
XX human mPGES-1 gene is located on chromosome 9, more specifically to
XX 9q34.3. The present invention also describes: (1) antisense compounds,
XX having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
XX mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
XX inhibits its expression; (2) a method of inhibiting the expression of
XX mPGES-1 in cells or tissues; and (3) a method of treating an animal
XX having a disease or condition associated with mPGES-1. mPGES-1 chimeric
XX antisense oligonucleotides and antisense compounds have cytostatic,
XX antidiabetic, immunomodulator, cardiant, neuroprotective,
XX antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,
XX ophthalmological, immunomodulatory and cardiovascular activities, and can
XX be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
XX can be used for preparing a composition for treating a disease or
XX condition associated with mPGES-1 e.g., inflammation, Alzheimer's
XX disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
XX ophthalmic, immunological, cardiovascular or neurological disorder.
XX
XX Sequence 20 BP; 2 A; 6 C; 7 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1433 CAGAGGATGCCATGACACA 1451
XX | | | | | | | | | | | | | | | | | |
XX Db 20 CCGAGGATGCCCTGAGACA 2
XX
XX RESULT 1144
XX ADM15006/C
XX ID ADM15006 standard; DNA; 20 BP.

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XX
XX AC
XX
XX 01-JUL-2004 (first entry)
XX
XX Human mPGES-1 chimeric antisense oligonucleotide SEQ ID NO:1193.
XX
XX chimeric; antisense oligonucleotide; phosphorothioate; human;
XX microsomal prostaglandin E2 synthase; mPGES-1; mPGES-1 inhibitor;
XX microsomal prostaglandin E2 synthase inhibitor; cytosstatic; antidiabetic;
XX immunomodulator; cardiant; neuroprotective; antiinflammatory;
XX neuroprotective; nootropic; antiarthritic; vasotropic; ophthalmological;
XX immunomodulatory; cardiovascular; gene therapy; inflammation;
XX Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;
XX reperfusion injury; ophthalmic disorder; immunological disorder;
XX cardiovascular disorder; neurological disorder; ss.
XX
XX Homo sapiens.
XX Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= b
XX /mod_base= OTHER
XX /note= "phosphorothioate linkages and all cytidine
XX residues are 5-methylcytidines"
XX modified_base 1..5
XX /tag= a
XX /mod_base= OTHER
XX /note= "2'-O-methoxyethyls"
XX modified_base 16..20
XX /tag= c
XX /mod_base= OTHER
XX /note= "2'-O-methoxyethyls"
XX
XX WO2004028458-A2.
XX
XX 08-APR-2004.
XX
XX 25-SEP-2003; 2003WO-US030374.
XX
XX 25-SEP-2002; 2002US-0413549P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Gierse JK;
XX
XX WPI; 2004-305094/28.
XX
XX New antisense compound, having a sequence targeted to a nucleic acid
XX encoding mPGES-1, useful for preparing a composition for treating e.g.,
XX inflammation, Alzheimer's disease, arthritis, diabetes, cancer or
XX ischemia.
XX
XX Claim 4; SEQ ID NO 1193; 132pp; English.
XX
XX The present sequence represents a chimeric antisense oligonucleotide
XX targeted to human microsomal prostaglandin E2 synthase (mPGES-1). The
XX human mPGES-1 gene is located on chromosome 9, more specifically to
XX 9q34.3. The present invention also describes: (1) antisense compounds,
XX having a sequence comprising 8-30 bp targeted to a nucleic acid encoding
XX mPGES-1, which specifically hybridise with the nucleic acid mPGES-1 and
XX inhibits its expression; (2) a method of inhibiting the expression of
XX mPGES-1 in cells or tissues; and (3) a method of treating an animal
XX having a disease or condition associated with mPGES-1. mPGES-1 chimeric
XX antisense oligonucleotides and antisense compounds have cytostatic,
XX antidiabetic, immunomodulator, cardiant, neuroprotective,
XX antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,
XX ophthalmological, immunomodulatory and cardiovascular activities, and can
XX be used as mPGES-1 inhibitors and in gene therapy. The antisense compound
XX can be used for preparing a composition for treating a disease or
XX condition associated with mPGES-1 e.g., inflammation, Alzheimer's
XX disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or
XX ophthalmic, immunological, cardiovascular or neurological disorder.
XX
XX Sequence 20 BP; 2 A; 6 C; 7 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14.2; DB 1; Length 20;
XX Best Local Similarity 84.2%; Pred. No. 8.7e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX QY 1433 CAGAGGATGCCATGACACA 1451
XX | | | | | | | | | | | | | | | | | |
XX Db 20 CCGAGGATGCCCTGAGACA 2
XX
XX RESULT 1144
XX ADM15006/C
XX ID ADM15006 standard; DNA; 20 BP.

```



```
CC ophthalmic, immunological, cardiovascular or neurological disorder.
XX
SQ Sequence 20 BP; 2 A; 6 C; 7 G; 5 T; 0 U; 0 Other;
    Query Match      0.8%; Score 14.2; DB 1; Length 20;
    Best Local Similarity 84.2%; Pred. No. 8.7e+02;
    Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 1433 CAGAGGATGCCATGAACA 1451
Db 19 CCGAGGATGCCCTGAGACA 1
RESULT 1145
ADO56089/c
ID ADO56089 standard; DNA; 20 BP.
XX
AC ADO56089;
XX
DT 29-JUL-2004 (first entry)
XX
DE Cyclin-dependent kinase 6, antisense oligonucleotide #153.
XX
KW antisense therapy; cyclin-dependent kinase 6;
KW hyperproliferative disorder; cancer; bacterial infection;
KW viral infection; apoptosis; ss; probe; human.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= b
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone. All cytidines are 5-
FT methylcytidines."
FT modified_base 1..15
FT /*tag= a
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX US2004087523-A1.
XX
XX 06-MAY-2004.
XX
XX 31-JUL-2002; 2002US-00210802.
XX
XX 31-JUL-2002; 2002US-00210802.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Freier SM, Dobie KW;
XX
XX WPI; 2004-356241/33.
XX
XX New compounds, particularly antisense oligonucleotides targeted to a
XX nucleic acid encoding cyclin-dependent kinase 6, useful for treating
XX cancer, bacterial/viral infection or conditions involving aberrant
XX apoptosis.
XX
XX Example 15; Page 31; 68pp; English.
XX
XX The invention relates to antisense oligonucleotides targeted to cyclin-
XX dependent kinase 6, and which inhibit the expression of cyclin-dependent
XX kinase 6. The antisense oligonucleotides are useful for treating a
XX disease or condition associated with cyclin-dependent kinase 6, such as a
XX hyperproliferative disorder (e.g. cancer), or conditions arising from
XX bacterial or viral infections, or involving aberrant apoptosis. They are
XX also useful in research and diagnostics for modulating the expression of
XX cyclin-dependent kinase 6. The present sequence represents a cyclin-
```

```
CC dependent kinase 6 antisense oligonucleotide. Note: Seqid 15-134 are also
CC used in the sequence listing but these sequences do not match seqid 15-
CC 134 displayed in Tables 1 and 2 (page 30-34).
XX
SQ Sequence 20 BP; 7 A; 5 C; 5 G; 3 T; 0 U; 0 Other;
    Query Match      0.8%; Score 14.2; DB 1; Length 20;
    Best Local Similarity 84.2%; Pred. No. 8.7e+02;
    Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 923 TGTTCACGCTGCTCCGTGG 941
Db 19 TGTTCACGCTTCTCCGAGG 1
RESULT 1146
ADO56156
ID ADO56156 standard; DNA; 20 BP.
XX
AC ADO56156;
XX
DT 29-JUL-2004 (first entry)
XX
DE Cyclin-dependent kinase 6, antisense oligonucleotide #220.
XX
KW antisense therapy; cyclin-dependent kinase 6;
KW hyperproliferative disorder; cancer; bacterial infection;
KW viral infection; apoptosis; ss; probe; human.
XX
OS Homo sapiens.
XX
XX US2004087523-A1.
XX
XX 06-MAY-2004.
XX
XX 31-JUL-2002; 2002US-00210802.
XX
XX 31-JUL-2002; 2002US-00210802.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Freier SM, Dobie KW;
XX
XX WPI; 2004-356241/33.
XX
XX New compounds, particularly antisense oligonucleotides targeted to a
XX nucleic acid encoding cyclin-dependent kinase 6, useful for treating
XX cancer, bacterial/viral infection or conditions involving aberrant
XX apoptosis.
XX
XX Example 15; Page 33; 68pp; English.
XX
XX The invention relates to antisense oligonucleotides targeted to cyclin-
XX dependent kinase 6, and which inhibit the expression of cyclin-dependent
XX kinase 6. The antisense oligonucleotides are useful for treating a
XX disease or condition associated with cyclin-dependent kinase 6, such as a
XX hyperproliferative disorder (e.g. cancer), or conditions arising from
XX bacterial or viral infections, or involving aberrant apoptosis. They are
XX also useful in research and diagnostics for modulating the expression of
XX cyclin-dependent kinase 6. The present sequence represents a cyclin-
XX dependent kinase 6 antisense oligonucleotide. Note: Seqid 15-134 are also
XX used in the sequence listing but these sequences do not match seqid 15-
XX 134 displayed in Tables 1 and 2 (page 30-34).
XX
SQ Sequence 20 BP; 3 A; 5 C; 5 G; 7 T; 0 U; 0 Other;
    Query Match      0.8%; Score 14.2; DB 1; Length 20;
    Best Local Similarity 84.2%; Pred. No. 8.7e+02;
    Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
OY 923 TGTTCACGCTGCTCCGTGG 941
Db 2 TGTTCACGCTTCTCCGAGG 20
```

```
RESULT 1147
ADO56090/c
ID ADO56090 standard; DNA; 20 BP.
AC ADO56090;
XX
DT 29-JUL-2004 (first entry)
XX
DE Cyclin-dependent kinase 6, antisense oligonucleotide #154.
XX
KW antisense therapy; cyclin-dependent kinase 6;
KW hyperproliferative disorder; cancer; bacterial infection;
KW viral infection; apoptosis; ss; probe; human.
XX
OS Homo sapiens.
XX
PH Key Location/Qualifiers
FT modified_base 1..20
FT /*tag= b
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone. All cytidines are 5-
FT modified_base 1..5
FT /*tag= a
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 15..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
US2004087523-A1.
XX
PN 06-MAY-2004.
XX
PF 31-JUL-2002; 2002US-00210802.
XX
PR 31-JUL-2002; 2002US-00210802.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Freier SM, Dobie KW;
XX
XX WPI; 2004-356241/33.
XX
PT New compounds, particularly antisense oligonucleotides targeted to a
PT nucleic acid encoding cyclin-dependent kinase 6, useful for treating
PT cancer, bacterial/viral infection or conditions involving aberrant
PT apoptosis.
XX
PS Example 15; Page 31; 68pp; English.
XX
CC The invention relates to antisense oligonucleotides targeted to cyclin-
CC dependent kinase 6, and which inhibit the expression of cyclin-dependent
CC kinase 6. The antisense oligonucleotides are useful for treating a
CC disease or condition associated with cyclin-dependent kinase 6, such as a
CC hyperproliferative disorder (e.g. cancer), or conditions arising from
CC bacterial or viral infections, or involving aberrant apoptosis. They are
CC also useful in research and diagnostics for modulating the expression of
CC cyclin-dependent kinase 6. The present sequence represents a cyclin-
CC dependent kinase 6 antisense oligonucleotide. Note: Seqid 15-134 are also
CC used in the sequence listing but these sequences do not match seqid 15-
CC 134 displayed in Tables 1 and 2 (page 30-34).
XX
SQ Sequence 20 BP; 6 A; 6 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 928 CAGCTGCTCGTGCCTGG 946
```

```
Db 19 CAGCTTCTCCGAGGCTCG 1
||||| ||||| || |||||
RESULT 1148
ADN03067/c
ID ADN03067 standard; DNA; 20 BP.
XX
AC ADN03067;
XX
DT 29-JUL-2004 (first entry)
XX
DE Human PIM-1 DNA antisense oligonucleotide #24.
XX
KW Human; PIM-1; ss; antisense oligonucleotide; phosphorothioate linkage;
KW 2'-O-methoxyethyl sugar moiety; 5-methylcytosine;
KW hyperproliferative disorder; cancer; cytostatic.
XX
OS Homo sapiens.
XX
PN US2004092463-A1.
XX
PD 13-MAY-2004.
XX
PF 11-NOV-2002; 2002US-00292849.
XX
PR 11-NOV-2002; 2002US-00292849.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Watt AT;
XX
XX WPI; 2004-374981/35.
XX
PT New compound that modulates PIM-1 expression, useful in treating an
PT animal having a disease or condition, i.e. hyperproliferative disorder.
XX
PS Example 15; SEQ ID NO 36; 51pp; English.
XX
CC The invention relates to a compound targeted to a nucleic acid molecule
CC encoding the human PIM-1 polypeptide. The compound is an antisense
CC oligonucleotide that specifically hybridizes with the nucleic acid and
CC inhibits expression of the polypeptide. The antisense oligonucleotide
CC comprises at least one modified internucleoside linkage i.e. a
CC phosphorothioate linkage, at least one modified sugar moiety, preferably
CC a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase
CC comprising a 5-methylcytosine. The antisense compounds are useful for
CC modulating the expression of the human PIM-1 polypeptide and in
CC preparation of a composition for treating hyperproliferative disorders,
CC e.g. cancer. This sequence represents a human PIM-1 DNA antisense
CC oligonucleotide of the invention.
XX
SQ Sequence 20 BP; 3 A; 6 C; 8 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 966 GTGCTACACCGAGACCTC 984
||||| ||||| |||||
Db 19 GGTGCTCCACCGCGACATC 1

RESULT 1149
ADN03134
ID ADN03134 standard; DNA; 20 BP.
XX
AC ADN03134;
XX
DT 29-JUL-2004 (first entry)
XX
DE Human PIM-1 DNA antisense oligonucleotide target region #13.
XX
```

KW Human; PIM-1; ss; antisense oligonucleotide; phosphorothioate linkage;  
KW 2'-O-methoxyethyl sugar moiety; 5-methylcytosine;  
KW hyperproliferative disorder; cancer; cytostatic.  
XX Homo sapiens.  
XX US2004092463-A1.  
XX 13-MAY-2004.  
XX 11-NOV-2002; 2002US-00292849.  
XX 11-NOV-2002; 2002US-00292849.  
XX (ISIS-) ISIS PHARM INC.  
XX Watt AT;  
XX WPI; 2004-374981/35.  
XX New compound that modulates PIM-1 expression, useful in treating an  
PT animal having a disease or condition, i.e. hyperproliferative disorder.  
XX Example 15; SEQ ID NO 103; 5lpp; English.  
XX The invention relates to a compound targeted to a nucleic acid molecule  
CC encoding the human PIM-1 polypeptide. The compound is an antisense  
CC oligonucleotide that specifically hybridises with the nucleic acid and  
CC inhibits expression of the polypeptide. The antisense oligonucleotide  
CC comprises at least one modified internucleoside linkage i.e. a  
CC phosphorothioate linkage, at least one modified sugar moiety, preferably  
CC a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase  
CC comprising a 5-methylcytosine. The antisense compounds are useful for  
CC modulating the expression of the human PIM-1 polypeptide and in  
CC preparation of a composition for treating hyperproliferative disorders,  
CC e.g. cancer. This sequence represents a human PIM-1 DNA antisense  
CC oligonucleotide target region of the invention.  
XX  
XX Sequence 20 BP; 3 A; 8 C; 6 G; 3 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. NO. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 966 GGTGCTACACCGACCTC 984  
Dbbbbb|  
Db 2 GGTGCTCACCAGACATC 20  
RESULT 1150  
ADN61576  
ID ADN61576 standard; DNA; 20 BP.  
XX ADN61576;  
AC ADN61576;  
XX  
XX 29-JUL-2004 (first entry)  
XX Fungi, oomycete and plant general hybridisation primer B SEQ ID NO:30.  
XX detection; fungal infection; soil fungal infection;  
KW vegetable fungal infection; pathogenic fungus; Microcentrospora acerina;  
KW Fibularhizoctonia carotae; Pythium; hybridisation; primer; ss.  
XX  
XX Synthetic.  
XX  
XX WO2004040017-A2.  
XX  
XX 13-MAY-2004.  
XX 31-OCT-2003; 2003WO-GB004712.  
XX 01-NOV-2002; 2002GB-00025550.  
XX 01-NOV-2002; 2002GB-00025551.  
XX

XX  
XX (CARR-) CARROTECH AS.  
XX (COCK/) COCKBAIN J R M.  
XX Hermansen A, Klemsdal S, Naerstad R, Wanner L, Lund G;  
XX WPI; 2004-376207/35.  
XX  
XX Detecting fungal infection of soil or vegetables by Microcentrospora  
PT acerina, Fibularhizoctonia carotae or Pythium species by treating the  
PT sample of soil or vegetable and effecting a PCR on DNA released by lysis  
PT of the fungal cells.  
XX  
XX Disclosure; SEQ ID NO 30; 44pp; English.  
XX  
XX The present invention describes an assay for detecting fungal infection  
CC of soil or vegetables by pathogenic fungal species, particularly  
CC Microcentrospora acerina, Fibularhizoctonia carotae or Pythium species.  
XX The assay comprises: (1) obtaining a sample of soil or vegetable; (2)  
CC treating the sample to lyse fungal cells; (3) effecting a PCR on DNA  
CC released by lysis of the fungal cells, using an oligonucleotide primer  
CC pair; and (4) detecting DNA fragments generated by the PCR. Also  
CC described: (1) an 18-24-mer oligonucleotide primer hybridisable to an  
CC oligonucleotide sequence selected from SEQ ID NO:1 to 28; (2) a substrate  
CC having immobilised on it the 18-24-mer oligonucleotide primer; (3) a  
CC primer composition comprising a pair of 18-24-mer oligonucleotide primers  
CC from soil or for performing the assay method, for nucleic acid extraction  
CC from soil or for pathogen DNA extraction from host vegetable tissue; (5)  
CC extracting nucleic acid from the soil; and (6) extracting pathogen DNA  
CC from host vegetable tissue. The assay is useful for detecting fungal  
CC infection of soil or vegetables by pathogenic fungal species,  
CC particularly Microcentrospora acerina, Fibularhizoctonia carotae or  
CC Pythium species. The present sequence represents a general primer which  
CC can hybridise to DNA from all fungi, all oomycetes and all plants, which  
XX is given in the exemplification of the present invention.  
XX  
XX Sequence 20 BP; 2 A; 6 C; 5 G; 7 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. NO. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1549 CTTGGTCTTCGTCGATGC 1567  
Dbbbbb|  
Db 2 CTGGCTTCATCGATGC 20  
RESULT 1151  
ADN61577/c  
ID ADN61577 standard; DNA; 20 BP.  
XX ADN61577;  
AC ADN61577;  
XX  
XX 29-JUL-2004 (first entry)  
XX Fungi, oomycete and plant general hybridisation primer C SEQ ID NO:31.  
XX detection; fungal infection; soil fungal infection;  
KW vegetable fungal infection; pathogenic fungus; Microcentrospora acerina;  
KW Fibularhizoctonia carotae; Pythium; hybridisation; primer; ss.  
XX  
XX Synthetic.  
XX  
XX WO2004040017-A2.  
XX  
XX 13-MAY-2004.  
XX 31-OCT-2003; 2003WO-GB004712.  
XX 01-NOV-2002; 2002GB-00025550.  
XX 01-NOV-2002; 2002GB-00025551.  
XX  
XX (CARR-) CARROTECH AS.

PA (COCK/) COCKBAIN J R M.  
XX Hermansen A, Klemsdal S, Naerstad R, Wanner L, Lund G;  
XX WPI; 2004-376207/35.  
XX  
XX Detecting fungal infection of soil or vegetables by Microcentrospora  
PT acerina, Fibularhizoctonia carotae or Pythium species by treating the  
PT sample of soil or vegetable and effecting a PCR on DNA released by lysis  
PT of the fungal cells.  
XX  
XX Disclosure; SEQ ID NO 31; 44pp; English.  
BS  
XX The present invention describes an assay for detecting fungal infection  
XX of soil or vegetables by pathogenic fungal species, particularly  
CC Microcentrospora acerina, Fibularhizoctonia carotae or Pythium species.  
CC The assay comprises: (1) obtaining a sample of soil or vegetable; (2)  
CC treating the sample to lyse fungal cells; (3) effecting a PCR on DNA  
CC released by lysis of the fungal cells, using an oligonucleotide primer  
CC pair; and (4) detecting DNA fragments generated by the PCR. Also  
CC described: (1) an 18-24-mer oligonucleotide primer hybridisable to an  
CC oligonucleotide sequence selected from SEQ ID NO:1 to 28; (2) a substrate  
CC having immobilised on it the 18-24-mer oligonucleotide primer; (3) a  
CC primer composition comprising a pair of 18-24-mer oligonucleotide primers  
CC; (4) a kit for performing the assay method, for nucleic acid extraction  
CC from soil or for pathogen DNA extraction from host vegetable tissue; (5)  
CC extracting nucleic acid from the soil; and (6) extracting pathogen DNA  
CC from host vegetable tissue. The assay is useful for detecting fungal  
CC infection of soil or vegetables by pathogenic fungal species,  
CC particularly Microcentrospora acerina, Fibularhizoctonia carotae or  
CC Pythium species. The present sequence represents a general primer which  
CC can hybridise to DNA from all fungi, all comycetes and all plants, which  
CC is given in the exemplification of the present invention.  
XX  
XX Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;  
SQ Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 1549 CTTCCGCTCTTCGTCGATGC 1567  
DB 19 CTGCGTCTTCATCGATGC 1  
RESULT 1152  
ADP76544/c  
ID ADP76544 standard; DNA; 20 BP.  
AC ADP76544;  
XX  
XX 12-AUG-2004 (first entry)  
XX Chimeric phosphorothioate oligonucleotide #343.  
XX GFAT; Antidiabetic; Cardiant;  
KW Glutamine-fructose-6-phosphate amidotransferase; diabetes; ischemia;  
KW reperfusion; ss.  
XX Synthetic.  
OS  
XX Key Location/Qualifiers  
FH modified\_base 1..4  
FT /\*tag= a  
FT /mod\_base= other  
FT /note= "2-methoxyethyl wing"  
FT modified\_base 17..20  
FT /\*tag= b  
FT /mod\_base= other  
FT /note= "2-methoxyethyl wing"  
XX  
XX WO2004035763-A2.  
XX  
XX

PD 29-APR-2004.  
XX  
XX 02-OCT-2003; 2003WO-US033332.  
XX  
XX 17-OCT-2002; 2002US-0419268P.  
XX  
XX (PHAA ) PHARMACIA CORP.  
XX PA  
XX Broschat KO, Crosby SD;  
XX PI  
XX WPI; 2004-348453/32.  
XX  
XX New compounds, particularly antisense oligonucleotides targeted to a  
PT nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase  
PT (GFAT), for treating diabetes, a cardiovascular or neurologic disorder,  
PT ischemia/reperfusion injury.  
XX  
XX Claim 4; SEQ ID NO 343; 175pp; English.  
PS  
XX The present invention relates to a compound which specifically hybridizes  
CC with a nucleic acid molecule encoding GFAT, and inhibits the expression  
CC of GFAT. Specifically claimed are antisense oligonucleotides capable of  
CC modulating the expression of GFAT, and which comprise any of the 3063  
CC sequences of 20 base pairs, given in the specification. The compound,  
CC composition and methods are useful for treating a disease or condition  
CC associated with GFAT, such as a disease or condition, e.g. diabetes, a  
CC cardiovascular or neurological disorder, ischemia/reperfusion injury.  
CC They are also useful in research and diagnostics for modulating the  
CC expression of GFAT. The present sequence represents a chimeric  
CC phosphorothioate oligonucleotide with 2'-MOE wings and a deoxy gap, these  
CC oligonucleotides inhibit human GFAT expression.  
XX  
XX Sequence 20 BP; 4 A; 6 C; 2 G; 8 T; 0 U; 0 Other;  
SQ Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 131 GGATGAAGAAGATCAACG 149  
DB 19 GGATGAAGAAGTTCACAG 1  
RESULT 1153  
ADP76350/c  
ID ADP76350 standard; DNA; 20 BP.  
XX  
XX ADP76350;  
XX  
XX 12-AUG-2004 (first entry)  
XX Chimeric phosphorothioate oligonucleotide #149.  
XX GFAT; Antidiabetic; Cardiant;  
KW Glutamine-fructose-6-phosphate amidotransferase; diabetes; ischemia;  
KW reperfusion; ss.  
XX Synthetic.  
OS  
XX Key Location/Qualifiers  
FH modified\_base 1..4  
FT /\*tag= a  
FT /mod\_base= other  
FT /note= "2-methoxyethyl wing"  
FT modified\_base 17..20  
FT /\*tag= b  
FT /mod\_base= other  
FT /note= "2-methoxyethyl wing"  
XX  
XX WO2004035763-A2.  
XX  
XX 29-APR-2004.  
XX  
XX

PF 02-OCT-2003; 2003WO-US033332.  
 XX  
 PR 17-OCT-2002; 2002US-0419268P.  
 XX  
 PA (PHAA ) PHARMACIA CORP.  
 XX  
 PI Broschat KO, Crosby SD;  
 XX  
 DR WPI; 2004-348453/32.  
 XX  
 PT New compounds, particularly antisense oligonucleotides targeted to a  
 PT nucleic acid encoding glutamine-fructose-6-phosphate amidotransferase  
 PT (GFAT), for treating diabetes, a cardiovascular or neurologic disorder,  
 PT ischemia/reperfusion injury.  
 XX  
 PS Claim 4; SEQ ID NO 149; 175pp; English.  
 XX  
 CC The present invention relates to a compound which specifically hybridizes  
 CC with a nucleic acid molecule encoding GFAT, and inhibits the expression  
 CC of GFAT. Specifically claimed are antisense oligonucleotides capable of  
 CC modulating the expression of GFAT, and which comprise any of the 3063  
 CC sequences of 20 base pairs, given in the specification. The compound,  
 CC composition and methods are useful for treating a disease or condition  
 CC associated with GFAT, such as a disease or condition, e.g. diabetes, a  
 CC cardiovascular or neurological disorder, ischemia/reperfusion injury.  
 CC They are also useful in research and diagnostics for modulating the  
 CC expression of GFAT. The present sequence represents a chimeric  
 CC phosphorothioate oligonucleotide with 2'-MOE wings and a deoxy gap, these  
 CC oligonucleotides inhibit human GFAT expression.  
 XX  
 SQ Sequence 20 BP; 3 A; 6 C; 3 G; 8 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 131 GGATGAAGAGATCAACG 149  
 Db |||||  
 20 GGATGAAGAGATTCAACG 2  
 RESULT 1154  
 ADO44487/c  
 ID ADO44487 standard; DNA; 20 BP.  
 AC ADO44487;  
 XX  
 DT 12-AUG-2004 (first entry)  
 XX  
 DE 4F2 gene measuring reverse primer.  
 XX  
 KW SF-25 antigen; magnetic bead; cancer; cancer diagnosis; PCR; primer; 4F2;  
 KW ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO2004042401-A1.  
 XX  
 PD 21-MAY-2004.  
 XX  
 PF 07-NOV-2003; 2003WO-JP014201.  
 XX  
 PR 08-NOV-2002; 2002JP-00326193.  
 XX  
 PA (TAKA/) TAKAHASHI H.  
 PA (HANA/) HANADA S.  
 XX  
 PI Takahashi H, Hanada S, Mitsunaga M;  
 XX  
 DR WPI; 2004-419769/39.  
 XX  
 PT Examining cancer cells through isolation of such cells expressing SF-25  
 PT antigen on cell surface for bonding to magnetic beads with antigen-

PT antibody reaction, applicable in diagnosis of cancer including leukemia.  
 XX  
 PS Example 4; SEQ ID NO 16; 33pp; Japanese.  
 XX  
 CC The invention relates to detecting cancer cells and involves isolating  
 CC cancer cells expressing SP-25 antigen on cell surface from a living body  
 CC for bonding to magnetic beads with use of antigen-antibody reaction of  
 CC the cancer cell and anti SP-25 antibody or its antigen-binding fragment,  
 CC collecting the beads and examining the bound cancer cells. The method is  
 CC for examining cancer cells, which is applicable in diagnosis of cancer  
 CC including leukemia. The method is convenient and efficient, without  
 CC needing any special equipment like cell sorters. The present sequence  
 CC represents a PCR primer used in measuring the expression level of the 4F2  
 CC gene.  
 XX  
 SQ Sequence 20 BP; 5 A; 8 C; 3 G; 4 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 208 GAGCAGATAGGCTCGATG 226  
 Db |||||  
 20 GATGAGATTGGCTCGATG 2  
 RESULT 1155  
 ADO32972/c  
 ID ADO32972 standard; DNA; 20 BP.  
 XX  
 AC ADO32972;  
 XX  
 DT 12-AUG-2004 (first entry)  
 XX  
 DE Antisense 2'-MOE gapmer oligo targeted to human ApoB RNA - SEQ 420.  
 XX  
 KW apolipoprotein B; ApoB; cardiovascular; antiarteriosclerotic;  
 KW antilipemic; antidiabetic; anorectic; cardiac; vasotropic; hypotensive;  
 KW anabolic; eating disorder; cyostatic; endocrine; vasotropic;  
 KW neuroprotective; nootropic; lipid; cholesterol metabolism;  
 KW hyperlipoproteinaemia; hyperlipidaemia; hypercholesterolaemia;  
 KW Von Gierke's disease; lipodystrophy; Cushing's syndrome;  
 KW sexual ateliotic dwarfism; hyperthyroidism; hypertension;  
 KW anorexia nervosa; Werner's syndrome; hepatoma; multiple myeloma; uraemia;  
 KW impotence; obstructive liver disease; Alzheimer's; dementia; diabetes;  
 KW obesity; atherosclerosis; antisense; 2'-MOE gapmer; 2'-methoxyethyl wing;  
 KW phosphorothioate backbone; human; chromosome 2p23-2p24; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "OTHER = Phosphorothioate backbone, bases 1-5 and  
 FT 16-20 2'-MOE wing bases, all cytidine residues are 5-  
 FT methycytidines"  
 XX  
 PN WO2004044181-A2.  
 XX  
 PD 27-MAY-2004.  
 XX  
 PF 13-NOV-2003; 2003WO-US036411.  
 XX  
 PR 13-NOV-2002; 2002US-0426234P.  
 PR 15-MAY-2003; 2003WO-US015493.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Crooke R, Graham M, Lemonidis-Tarbet K, Dobie KW;  
 XX  
 DR WPI; 2004-420321/39.  
 XX

PT Antisense oligonucleotide compound that inhibits expression of mRNA  
 PT encoding human apolipoprotein B, useful for treating hyperlipidemia,  
 PT diabetes, obesity, von Gierke's disease, lipodystrophies, Cushing's  
 PT syndrome.  
 XX  
 PS Example 33; SEQ ID NO 420; 483pp; English.  
 XX  
 CC The invention relates to a novel antisense compound where the compound  
 CC hybridises to and inhibits expression of mRNA encoding human  
 CC apolipoprotein B (ApoB) after 16-24 hours by at least 30% in 80%  
 CC confluent HepG2 cells in culture at a concentration of 150 nM. The  
 CC compound of the invention demonstrates cardiovascular,  
 CC antiarteriosclerotic, antilipemic, antidiabetic, anorectic, cardiatic,  
 CC vasotropic, hypotensive, anabolic, eating disorder-related, cytostatic,  
 CC endocrine, vasotropic, neuroprotective and nootropic activities and may  
 CC be useful for inhibiting the expression of apolipoprotein B in cells or  
 CC tissues in vivo in order to address a condition associated with abnormal  
 CC lipid or cholesterol metabolism. The compound may be useful for  
 CC decreasing circulating lipoprotein levels, triglyceride levels,  
 CC cholesterol levels, lipid levels, fatty acid levels, acute phase  
 CC reactants and chylomicrons and thus may be utilised during treatment of  
 CC hyperlipoproteinaemia, hyperlipidaemia, hypercholesterolaemia,  
 CC cardiovascular disorders, Von Gierke's disease, lipodystrophy, Cushing's  
 CC syndrome, sexual ateliotic dwarfism, hyperthyroidism, hypertension,  
 CC anorexia nervosa, Werner's syndrome, hepatoma, multiple myeloma, uraemia,  
 CC impotence, obstructive liver disease, Alzheimer's disease, dementia,  
 CC diabetes, obesity and atherosclerosis. The current sequence is that of an  
 CC antisense 2'-MOE (2'-methoxyethyl) gapmer oligo of the invention which is  
 CC targeted to human ApoB RNA.  
 XX  
 SQ Sequence 20 BP; 9 A; 5 C; 4 G; 2 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 583 CTATCTGAGATTGGCTTG 601  
 Db 19 CTTTCTCAGATTGGCTTG 1  
 RESULT 1156  
 ADO32680/c  
 ID ADO32680 standard; DNA; 20 BP.  
 XX  
 AC ADO32680;  
 XX  
 DT 12-AUG-2004 (first entry)  
 XX  
 DE Antisense 2'-MOE gapmer oligo targeted to human ApoB RNA - SEQ 128.  
 XX  
 CC apolipoprotein B; ApoB; cardiovascular; antiarteriosclerotic;  
 CC antilipemic; antidiabetic; anorectic; cardiatic; vasotropic; hypotensive;  
 CC anabolic; eating disorder; cytostatic; endocrine; vasotropic;  
 CC neuroprotective; nootropic; lipid; cholesterol metabolism;  
 CC hyperlipoproteinaemia; hyperlipidaemia; hypercholesterolaemia;  
 CC Von Gierke's disease; lipodystrophy; Cushing's syndrome;  
 CC sexual ateliotic dwarfism; hyperthyroidism; hypertension;  
 CC anorexia nervosa; Werner's syndrome; hepatoma; multiple myeloma; uraemia;  
 CC impotence; obstructive liver disease; Alzheimer's; dementia; diabetes;  
 CC obesity; atherosclerosis; antisense; 2'-MOE gapmer; 2'-methoxyethyl wing;  
 KW phosphorothioate backbone; human; chromosome 2p23-2p24; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 PT modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "OTHER = Phosphorothioate backbone, bases 1-5 and  
 FT 16-20 2'-MOE wing bases, all cytidine residues are 5-  
 FT methylcytidines"  
 FT  
 XX

PN WO2004044181-A2.  
 XX  
 PD 27-MAY-2004.  
 XX  
 PF 13-NOV-2003; 2003WO-US036411.  
 XX  
 PR 13-NOV-2002; 2002US-0426234P.  
 PR 15-MAY-2003; 2003WO-US015493.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Crooke R, Graham M, Lemonidis-Tarbet K, Dobie KW;  
 WIPI; 2004-420321/39.  
 DR  
 XX Antisense oligonucleotide compound that inhibits expression of mRNA  
 PT encoding human apolipoprotein B, useful for treating hyperlipidemia,  
 PT diabetes, obesity, von Gierke's disease, lipodystrophies, Cushing's  
 PT syndrome.  
 XX  
 PS Example 29; SEQ ID NO 128; 483pp; English.  
 XX  
 CC The invention relates to a novel antisense compound where the compound  
 CC hybridises to and inhibits expression of mRNA encoding human  
 CC apolipoprotein B (ApoB) after 16-24 hours by at least 30% in 80%  
 CC confluent HepG2 cells in culture at a concentration of 150 nM. The  
 CC compound of the invention demonstrates cardiovascular,  
 CC antiarteriosclerotic, antilipemic, antidiabetic, anorectic, cardiatic,  
 CC vasotropic, hypotensive, anabolic, eating disorder-related, cytostatic,  
 CC endocrine, vasotropic, neuroprotective and nootropic activities and may  
 CC be useful for inhibiting the expression of apolipoprotein B in cells or  
 CC tissues in vivo in order to address a condition associated with abnormal  
 CC lipid or cholesterol metabolism. The compound may be useful for  
 CC decreasing circulating lipoprotein levels, triglyceride levels,  
 CC cholesterol levels, lipid levels, fatty acid levels, acute phase  
 CC reactants and chylomicrons and thus may be utilised during treatment of  
 CC hyperlipoproteinaemia, hyperlipidaemia, hypercholesterolaemia,  
 CC cardiovascular disorders, Von Gierke's disease, lipodystrophy, Cushing's  
 CC syndrome, sexual ateliotic dwarfism, hyperthyroidism, hypertension,  
 CC anorexia nervosa, Werner's syndrome, hepatoma, multiple myeloma, uraemia,  
 CC impotence, obstructive liver disease, Alzheimer's disease, dementia,  
 CC diabetes, obesity and atherosclerosis. The current sequence is that of an  
 CC antisense 2'-MOE (2'-methoxyethyl) gapmer oligo of the invention which is  
 CC targeted to human ApoB RNA.  
 XX  
 SQ Sequence 20 BP; 4 A; 7 C; 4 G; 5 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1012 AGGGGAGAGCTCAAGCTGG 1030  
 Db 19 AGGTATGAGCTCAAGCTGG 1  
 RESULT 1157  
 ADO33069  
 ID ADO33069 standard; DNA; 20 BP.  
 XX  
 AC ADO33069;  
 XX  
 DT 12-AUG-2004 (first entry)  
 XX  
 DE Human apolipoprotein B (ApoB) antisense therapy target DNA - SEQ 517.  
 XX  
 CC apolipoprotein B; ApoB; cardiovascular; antiarteriosclerotic;  
 CC antilipemic; antidiabetic; anorectic; cardiatic; vasotropic; hypotensive;  
 CC anabolic; eating disorder; cytostatic; endocrine; vasotropic;  
 CC neuroprotective; nootropic; lipid; cholesterol metabolism;  
 CC hyperlipoproteinaemia; hyperlipidaemia; hypercholesterolaemia;  
 CC Von Gierke's disease; lipodystrophy; Cushing's syndrome;  
 CC sexual ateliotic dwarfism; hyperthyroidism; hypertension;

KW anorexia nervosa; Werner's syndrome; hepatoma; multiple myeloma; uraemia;  
KW impotence; obstructive liver disease; Alzheimer's; dementia; diabetes;  
KW obesity; atherosclerosis; human; chromosome 2p23-2p24; ds;  
KW antisense target.

XX Homo sapiens.

OS WO2004044181-A2.

XX 27-MAY-2004.

XX 13-NOV-2003; 2003WO-US036411.

XX 13-NOV-2002; 2002US-0426234P.

PR 15-MAY-2003; 2003WO-US015493.

XX (ISIS-) ISIS PHARM INC.

XX Crooke R, Graham M, Lemonidis-Tarbet K, Dobie KW;

XX WPI; 2004-420321/39.

XX Antisense oligonucleotide compound that inhibits expression of mRNA  
PT encoding human apolipoprotein B, useful for treating hyperlipidemia,  
PT diabetes, obesity, von Gierke's disease, lipodystrophies, Cushing's  
PT syndrome.

XX Example 36; SEQ ID NO 517; 483pp; English.

XX The invention relates to a novel antisense compound where the compound  
CC hybridises to and inhibits expression of mRNA encoding human  
CC apolipoprotein B (ApoB) after 16-24 hours by at least 30% in 80%  
CC confluent HepG2 cells in culture at a concentration of 150 nM. The  
CC compound of the invention demonstrates cardiovascular,  
CC antiarteriosclerotic, antilipemic, antidiabetic, anorectic, cardiant,  
CC vasotropic, hypotensive, anabolic, eating disorder-related, cytostatic,  
CC endocrine, vasotropic, neuroprotective and nootropic activities and may  
CC be useful for inhibiting the expression of apolipoprotein B in cells or  
CC tissues in vivo in order to address a condition associated with abnormal  
CC lipid or cholesterol metabolism. The compound may be useful for  
CC decreasing circulating lipoprotein levels, triglyceride levels,  
CC cholesterol levels, lipid levels, fatty acid levels, acute phase  
CC reactants and chylomicrons and thus may be utilised during treatment of  
CC hyperlipoproteinaemia, hyperlipidaemia, hypercholesterolaemia, Cushing's  
CC cardiovascular disorders. Von Gierke's disease, lipodystrophy, Cushing's  
CC syndrome, sexual ateliotic dwarfism, hyperthyroidism, hypertension,  
CC anorexia nervosa, Werner's syndrome, hepatoma, multiple myeloma, uraemia,  
CC impotence, obstructive liver disease, Alzheimer's disease, dementia,  
CC diabetes, obesity and atherosclerosis. The current sequence is that of a  
CC human apolipoprotein B (ApoB) antisense therapy target DNA of the  
CC invention. The human ApoB gene is located at chromosome 2p23-2p24.

XX Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1012 AGGGAGAGCTCAAGCTGG 1030

Db 2 AGGTATGAGCTCAAGCTGG 20

RESULT 1158

ADP82137/c

ID ADP82137 standard; DNA; 20 BP.

XX ADP82137;

XX 26-AUG-2004 (first entry)

XX Human DRI-associated protein 1 antisense oligonucleotide ISIS #171285.

XX

KW DRI-associated protein 1; DRAP1; negative cofactor 2 alpha; NC2-alpha;  
KW developmental disorder; therapy; human; antisense;  
KW phosphorothioate backbone; ss.

XX Homo sapiens.

OS Synthetic.

XX Key Location/Qualifiers

FT modified\_base 1..20

FT /tag= b

FT /mod\_base= OTHER

FT /note= "phosphorothioate backbone where all cytidines are  
5-methyl cytidines"

FT modified\_base 1..5

FT /tag= a

FT /mod\_base= OTHER

FT /note= "2' -methoxyethyl nucleotides"

FT modified\_base 16..20

FT /tag= c

FT /mod\_base= OTHER

FT /note= "2' -methoxyethyl nucleotides"

XX US2004110703-A1.

XX 10-JUN-2004.

XX 10-DEC-2002; 2002US-00317279.

XX 10-DEC-2002; 2002US-00317279.

XX (ISIS-) ISIS PHARM INC.

XX Chiang M, Dobie KW;

XX WPI; 2004-440383/41.

XX New compounds, particularly oligonucleotides targeted to a nucleic acid  
PT encoding DRI-associated protein 1, useful for treating diseases  
PT associated with DRI-associated protein 1, e.g. developmental disorders.

XX Example 15; SEQ ID NO 16; 33pp; English.

XX The present sequence is directed to antisense oligonucleotides targeted  
CC to DRI-associated protein 1 [also known as DRAP1 and negative cofactor 2  
CC alpha (NC2-alpha)] and which modulates to the expression of DRI-  
CC associated protein 1. The invention is useful for treating a disease or  
CC condition associated with DRI-associated protein 1 such as a  
CC developmental disorder. The present sequence is human DRI-associated  
CC protein 1 antisense oligonucleotide. This sequence is used in the  
CC exemplification of the invention.

XX Sequence 20 BP; 6 A; 6 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 20;  
Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 46 GGACCAGCAGTGTGACTGC 64

Db 19 GGAGCAGCAGTTTGACTTC 1

RESULT 1159

ADO23289/c

ID ADO23289 standard; DNA; 20 BP.

XX ADO23289;

XX 26-AUG-2004 (first entry)

XX Nucleic acid amplification method related competitor DNA #1.

XX nucleic acid amplification; hybridisation; microarray; diagnosis;

XX

KW genetic analysis; single-nucleotide polymorphism analysis;  
 KW microorganism detection; viral pathogen detection;  
 KW real-time quantitative PCR; ss.  
 XX  
 OS Unidentified.  
 XX  
 PN WO2004046378-A2.  
 XX  
 PD 03-JUN-2004.  
 XX  
 PF 18-NOV-2003; 2003WO-EP012905.  
 XX  
 PR 19-NOV-2002; 2002DE-01053966.  
 XX  
 PA (CLON-) CLONDIAG CHIP TECHNOLOGIES GMBH.  
 XX  
 PI Ermantraut E, Bickel R, Ellinger T, Wagenhaus A;  
 XX  
 DR WPI; 2004-420638/39.  
 XX  
 PT Efficient amplification of template nucleic acid, useful e.g. for genetic  
 PT analysis or detecting microorganisms, uses a competitor that inhibits  
 PT amplification of one template strand.  
 XX  
 PS Example 10; Page 103; 142pp; German.  
 XX  
 CC The invention describes the efficient amplification of at least one  
 CC template nucleic acid (A) comprising PCR amplification, in the presence,  
 CC from the start, of a competitor (I) that inhibits formation of one of the  
 CC template strands amplified by PCR. Also described is a method for  
 CC detecting at least one nucleic acid (NA) comprising amplification by the  
 CC new process then detecting the amplification product by hybridisation  
 CC with a complementary probe. The method is used to amplify nucleic acids  
 CC for subsequent detection by hybridisation, particularly in a microarray  
 CC format, e.g. for diagnosis, especially genetic analysis; analysis of  
 CC single-nucleotide polymorphisms; detection of microorganisms and/or of  
 CC viral pathogens. It can also be used for real-time quantitative PCR (by  
 CC cyclic repetition of the amplification and hybridisation steps). The  
 CC method provides quantitative, microarray-based analysis; involves fewer  
 CC steps (amplification and detection are done as a continuous process) and  
 CC has a lower error rate. The process can be done in a closed vessel and  
 CC provides a small, easily handled, system for point-of-care diagnosis.  
 CC Although (I) reduces the amount of amplification product formed, it  
 CC increases the hybridisation signal. This sequence represents an  
 CC oligonucleotide associated with the amplification method of the  
 CC invention.  
 XX  
 SQ Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1549 CTCGGTCTTCATCGATGC 1567  
 Db 19 CTCGGTCTTCATCGATGC 1  
 RESULT 1160  
 ADO23287/C  
 ID ADO23287 standard; DNA; 20 BP.  
 AC ADO23287;  
 XX  
 DT 26-AUG-2004 (first entry)  
 XX  
 DE Nucleic acid amplification method associated primer #5.  
 XX  
 KW nucleic acid amplification; hybridisation; microarray; diagnosis;  
 KW genetic analysis; single-nucleotide polymorphism analysis;  
 KW microorganism detection; viral pathogen detection;  
 KW real-time quantitative PCR; primer; ss.  
 XX

OS Unidentified.  
 XX  
 PN WO2004046378-A2.  
 XX  
 PD 03-JUN-2004.  
 XX  
 PF 18-NOV-2003; 2003WO-EP012905.  
 XX  
 PR 19-NOV-2002; 2002DE-01053966.  
 XX  
 PA (CLON-) CLONDIAG CHIP TECHNOLOGIES GMBH.  
 XX  
 PI Ermantraut E, Bickel R, Ellinger T, Wagenhaus A;  
 XX  
 DR WPI; 2004-420638/39.  
 XX  
 PT Efficient amplification of template nucleic acid, useful e.g. for genetic  
 PT analysis or detecting microorganisms, uses a competitor that inhibits  
 PT amplification of one template strand.  
 XX  
 PS Example 10; Page 103; 142pp; German.  
 XX  
 CC The invention describes the efficient amplification of at least one  
 CC template nucleic acid (A) comprising PCR amplification, in the presence,  
 CC from the start, of a competitor (I) that inhibits formation of one of the  
 CC template strands amplified by PCR. Also described is a method for  
 CC detecting at least one nucleic acid (NA) comprising amplification by the  
 CC new process then detecting the amplification product by hybridisation  
 CC with a complementary probe. The method is used to amplify nucleic acids  
 CC for subsequent detection by hybridisation, particularly in a microarray  
 CC format, e.g. for diagnosis, especially genetic analysis; analysis of  
 CC single-nucleotide polymorphisms; detection of microorganisms and/or of  
 CC viral pathogens. It can also be used for real-time quantitative PCR (by  
 CC cyclic repetition of the amplification and hybridisation steps). The  
 CC method provides quantitative, microarray-based analysis; involves fewer  
 CC steps (amplification and detection are done as a continuous process) and  
 CC has a lower error rate. The process can be done in a closed vessel and  
 CC provides a small, easily handled, system for point-of-care diagnosis.  
 CC Although (I) reduces the amount of amplification product formed, it  
 CC increases the hybridisation signal. This sequence represents a primer  
 CC associated with the amplification method of the invention.  
 XX  
 SQ Sequence 20 BP; 7 A; 5 C; 6 G; 2 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 20;  
 Best Local Similarity 84.2%; Pred. No. 8.7e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1549 CTCGGTCTTCATCGATGC 1567  
 Db 19 CTCGGTCTTCATCGATGC 1  
 RESULT 1161  
 ADP84331/C  
 ID ADP84331 standard; DNA; 20 BP.  
 XX  
 AC ADP84331;  
 XX  
 DT 23-SEP-2004 (first entry)  
 XX  
 DE Rev PCR primer used for sequencing exon 2b.1 boundary of human GPRA DNA.  
 XX  
 KW ss; AST-1; asthma; IGE mediated disease; human; GPRA;  
 KW G-protein coupled receptor for asthma susceptibility; AAAL;  
 KW asthma associated alternatively spliced gene 1; primer; PCR;  
 KW chronic obstructive pulmonary disease; cancer; rhinitis; dermatitis;  
 KW cytostatic; antiasthmatic; transgenic; asthma locus-1.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2004056866-A1.  
 XX



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PD 08-JUL-2004.
PF 19-DEC-2003; 2003WO-FI000973.
XX
XX 20-DEC-2002; 2002US-0435846P.
PR 03-JAN-2003; 2003US-0437895P.
PR 26-MAR-2003; 2003US-0458767P.
PR 09-JUL-2003; 2003US-0486000P.
XX
XX (GENE-) GENEOS OY.
XX
XX Laitinen T, Kere J, Laitinen LA, Polvi A, Maekelae S, Vendelin J;
PI Pulkkinen V, Salmikangas P;
XX WPI; 2004-500286/47.
XX
XX New GPRA polypeptides, useful in preparing a composition for diagnosing,
PT treating or preventing asthma, other IGE-mediated disease, chronic
PT obstructive pulmonary disease or cancer.
XX
XX Example 7; Page 76; 265pp; English.
XX
XX This invention relates to the identification of a novel susceptibility
CC locus AST-1 for asthma and other IGE mediated diseases mapped to the
CC human chromosome 7p14-p15. Specifically, it refers to two overlapping
CC genes namely GPRA (G-protein coupled receptor for asthma susceptibility)
CC and AAA1 (asthma associated alternatively spliced gene 1). The present
CC invention describes identifying single nucleotide polymorphisms, as well
CC as insertion or deletion polymorphisms, occurring at different positions
CC in the AST-1 locus, and furthermore providing vectors, host cells,
CC primers and probes in order to determine the status of an individual.
CC Accordingly, it provides a kit to diagnose or assess predisposition to
CC asthma, chronic obstructive pulmonary disease or cancer and other IGE
CC mediated diseases including rhinitis and dermatitis, such that derived
CC pharmaceutical compositions exhibit cytostatic and antiasthmatic
CC activities. Furthermore, it provides a transgenic animal comprising the
CC asthma locus-1 (AST-1) DNA. This oligonucleotide sequence is a PCR primer
CC used to sequence the exon and exon/ intron boundaries of human GPRA DNA,
CC given in table 5 of the invention.
XX
XX Sequence 20 BP; 4 A; 6 C; 4 G; 6 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14.2; DB 1; Length 20;
Best Local Similarity 84.2%; Pred. No. 8.7e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 210 GCAGATAGCCTGGATGAG 228
Db ||||| ||||| ||||| |||||
20 GCAAAATATCCCTGGATGAG 2
RESULT 1162
AAQ51806
ID AAQ51806 standard; DNA; 21 BP.
XX
XX AAQ51806;
AC
XX
XX 20-DEC-1993 (first entry)
DT
XX
XX Encodes ballast constituent in pINT69d pro-insulin fusion protein.
DE
XX
XX Fusion protein; ballast constituent; monkey pro-insulin; increased;
KW recombinant protein production; HMG CoA reductase;
KW human 3-hydroxy-3-methylglutaryl-coenzyme A-reductase;
KW mixed oligonucleotide; ds.
XX
XX Synthetic.
OS
XX
XX US5227293-A.
FN
XX
XX 13-JUL-1993.
PD
XX
XX 23-APR-1992; 92US-00838221.
PF

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XX 29-AUG-1989; 89US-00399874.
PR 28-AUG-1990; 90WO-US004840.
XX
XX (GEHO ) GEN HOSPITAL CORP.
PA (FARH ) HOECHST AG.
XX
XX Stengelin S, Ulmer W, Habermann P, Uhlmann E, Seed B;
PI WPI; 1991-102070/14.
XX
XX P-PSDB; AAR44307.
DR
XX
XX Prepn. of fusion proteins contg. ballast constituent and protein - giving
PT prods. which are protease resistant or insoluble.
XX
XX Example 8; Col 7-8; 22pp; English.
PS
XX
XX Sequence AAQ51806 is a specific example of the novel generic ballast
CC constituent coding sequence. The invention covers fusion proteins in
CC which a short ballast constituent is fused to a desired protein, esp. to
CC modified pro-insulin, to increase recombinant production of the protein.
CC See AAQ51798-Q51799 and AAQ51802-Q51811
XX
XX Sequence 21 BP; 10 A; 6 C; 3 G; 2 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 885 TGGGAACATCATCAACATG 903
Db ||||| ||||| ||||| |||||
2 TGGCAACAACATCAACACG 20
RESULT 1163
AAQ57291
ID AAQ57291 standard; mRNA; 21 BP.
XX
XX AAQ57291;
AC
XX
XX 25-MAR-2003 (revised)
DT 26-JUL-1994 (first entry)
XX
XX Enzymatic RNA molecule c-myb mRNA target sequence.
DE
XX
XX Specific; cleavage; target RNA; protein; prophylaxis; expression;
KW inhibitor; inhibition; ribozyme; treatment; prevention; psoriasis;
KW asthma; inflammatory diseases; restenosis; cardiovascular condition;
KW hypertension; arthritis; ss.
XX
XX Synthetic.
OS
XX
XX WO9402595-A1.
FN
XX
XX 03-FEB-1994.
PD
XX
XX 02-JUL-1993; 93WO-US006316.
PF
XX
XX 17-JUL-1992; 92US-00916763.
PR 07-DEC-1992; 92US-00987132.
PR 07-DEC-1992; 92US-00989848.
PR 07-DEC-1992; 92US-00989849.
PR 19-JAN-1993; 93US-00008895.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX
XX Sullivan SM, Draper KG;
PI WPI; 1994-048853/06.
DR
XX
XX Enzymatic RNA molecules which cleave mRNA - used to treat or prevent
PT inflammatory, arthritic, stenotic or cardiovascular diseases or
PT conditions.

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XX PS Claim 3; Page 20; 65pp; English.
XX CC
XX CC This is a c-myb mRNA target sequence (nucleotide no. 1919) of an
XX CC enzymatic RNA molecule (ribozyme) which cleaves mRNA associated with the
XX CC development or maintenance of a restenotic condition. The concn. of the
XX CC ribozyme necessary to effect a therapeutic treatment is lower than that
XX CC of an antisense oligonucleotide and the specificity of action is higher.
XX CC (Updated on 25-MAR-2003 to correct PN field.)
XX CC
XX CC Sequence 21 BP; 4 A; 5 C; 7 G; 5 T; 0 U; 0 Other;
XX CC
XX CC Query Match 0.8%; Score 14.2; DB 1; Length 21;
XX CC Best Local Similarity 84.2%; Pred. No. 9.1e+02;
XX CC Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 859 GACCTGAGCAGTACCTGG 877
Db 1 GCCTTGACAGTACCTGG 19

RESULT 1164
AAT42247/c
ID AAT42247 standard; DNA; 21 BP.
XX
XX AC AAT42247;
XX
XX DT 20-FEB-1997 (first entry)
XX
XX DE Primer derived from hlyA gene used in modified PCR method.
XX
XX KW Detection; PCR; polymerase chain reaction; hybrid; antibody;
XX KW immunochemical detection; ss.
XX
XX OS Synthetic.
XX
XX PN CA2139070-A.
XX
XX PD 24-JUN-1996.
XX
XX PF 23-DEC-1994; 94CA-02139070.
XX
XX PR 23-DEC-1994; 94CA-02139070.
XX
XX PA (BLAI/) BLAIS B W.
XX
XX PI Blais BW;
XX
XX DR WPI; 1996-413110/42.
XX
XX PT Detection of nucleic acid sequences - by polymerase chain reaction
XX PT amplification, transcription using RNA polymerase and detection of
XX PT RNA:DNA hybrids using antibodies.
XX
XX PS Example 1; Page 16; 31pp; English.
XX
XX CC A new method for the detection of nucleic acids comprises (a) amplifying
XX CC a DNA by PCR using primers to which an appropriate RNA polymerase
XX CC promoter has been appended; (b) transcribing the amplified DNA into RNA
XX CC using an RNA polymerase; (c) forming RNA:DNA hybrids; and (d)
XX CC immunochemically detecting the RNA:DNA hybrids using antibodies directed
XX CC to RNA:DNA hybrids. Two primers (AAT42247, AAT42248) were selected from
XX CC the hlyA gene and spanned a 730 base pair region of the gene from
XX CC nucleotides 602-1332. For further use in the invention, the primer
XX CC described in AAT42247 had an additional 26 nucleotides added to it
XX CC corresponding to T7 RNA polymerase promoter sequence. The resulting
XX CC primer is described in AAT42249
XX
XX CC Sequence 21 BP; 8 A; 1 C; 7 G; 5 T; 0 U; 0 Other;
XX CC
XX CC Query Match 0.8%; Score 14.2; DB 1; Length 21;
XX CC Best Local Similarity 84.2%; Pred. No. 9.1e+02;
XX CC Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

XX PS Claim 3; Page 20; 65pp; English.
XX CC
XX CC This is a c-myb mRNA target sequence (nucleotide no. 1919) of an
XX CC enzymatic RNA molecule (ribozyme) which cleaves mRNA associated with the
XX CC development or maintenance of a restenotic condition. The concn. of the
XX CC ribozyme necessary to effect a therapeutic treatment is lower than that
XX CC of an antisense oligonucleotide and the specificity of action is higher.
XX CC (Updated on 25-MAR-2003 to correct PN field.)
XX CC
XX CC Sequence 21 BP; 4 A; 5 C; 7 G; 5 T; 0 U; 0 Other;
XX CC
XX CC Query Match 0.8%; Score 14.2; DB 1; Length 21;
XX CC Best Local Similarity 84.2%; Pred. No. 9.1e+02;
XX CC Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 1503 TTCCATATTTCACCTAAAG 1521
Db 19 TTCCATCTTCCACTAATG 1

RESULT 1165
ADG77662/c
ID ADG77662 standard; DNA; 21 BP.
XX
XX AC ADG77662;
XX
XX DT 11-MAR-2004 (first entry)
XX
XX DE Canine disease marker-related PCR primer 506.
XX
XX KW genetic disease; genetic trait; dog; carrier of recessive disease;
XX KW copper toxicosis; CT; canine genome map; breed-specific profile;
XX KW DNA fingerprint; dog identification; PCR; primer; ss.
XX
XX OS Canis familiaris.
XX
XX PN WO9731011-A1.
XX
XX PD 28-AUG-1997.
XX
XX PF 18-FEB-1997; 97WO-US002396.
XX
XX PR 22-FEB-1996; 96US-0012060P.
XX
XX PA (UNMI ) UNIV MICHIGAN.
XX PA (UNMS ) UNIV MICHIGAN STATE.
XX
XX PI Brewer GJ, Venta PJ, Yuzbasiyan-Gurkan V;
XX
XX DR WPI; 1997-435082/40.
XX
XX PT New oligonucleotide primers for diagnosis of genetic diseases and traits
XX PT in dogs - amplify specific regions of the genome containing
XX PT microsatellite repeats, especially for diagnosing copper toxicosis and
XX PT carriers.
XX
XX PS Claim 1; Page 16; 40pp; English.
XX
XX CC This invention relates to novel oligonucleotide PCR primers which may be
XX CC used to identify markers associated with genetic diseases and traits in
XX CC dogs, in particular to diagnose genetic diseases that are not
XX CC phenotypically visible and to identify carriers of recessive diseases. A
XX CC specific application is diagnosis of copper toxicosis (CT). The invention
XX CC can also be used to create a genetic map of the canine genome; to
XX CC generate breed-specific profiles; to establish paternity and to identify
XX CC dogs from DNA fingerprints. The method provides rapid analysis of the
XX CC target sequences from only a small sample of DNA. Diagnosis can be done
XX CC at any time in the dog's life. The present sequence is that of a PCR
XX CC primer of the invention.
XX
XX CC Sequence 21 BP; 7 A; 3 C; 6 G; 5 T; 0 U; 0 Other;
XX CC
XX CC Query Match 0.8%; Score 14.2; DB 1; Length 21;
XX CC Best Local Similarity 84.2%; Pred. No. 9.1e+02;
XX CC Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 837 TGTCTTTGAGTACCTGGAC 855
Db 20 TGTCTTTAAGTAACCTGCAC 2

RESULT 1166
AAV51809
ID AAV51809 standard; DNA; 21 BP.
XX
XX AC AAV51809;
XX

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DT 02-FEB-1999 (first entry)
XX Zea mays genome reverse PCR primer #105.
DE Polymorphic marker; allele-specific; probe; amplification; PCR primer;
KW hybridisation; plant; hybrid certification; genetic contribution;
KW progeny; back-cross; hybrid; ancestry; corn; ss.
XX Synthetic.
OS Zea mays.
XX WO9824796-A1.
XX 11-JUN-1998.
XX 01-DEC-1997; 97WO-US021782.
XX 02-DEC-1996; 96US-0032069P.
XX 07-MAR-1997; 97US-00813507.
XX (AFFY-) AFFYMETRIX INC.
XX Lemieux B, Landry BS, Sapolsky RJ, Murigneux A;
XX WPI; 1998-333252/29.
XX Brassica species allele-specific oligonucleotide probes and primers -
XX useful for plant breeding.
XX Example 1; Page 51; 65pp; English.
XX AAV51705-V52008 are reverse PCR primers used to amplify fragments of the
XX Zea mays genome in order to detect polymorphic markers. Such markers can
XX be used in the construction of allele-specific primers and probes for
XX amplification or hybridisation, e.g. to determine common or disparate
XX ancestry between 2 or more plants, to monitor the genetic contribution of
XX an ancestral plant, to trace the progeny of proprietary plants, in
XX certification of a hybrid plant or to identify the progeny of a back-
XX crossed plant with an ancestral plant
XX Sequence 21 BP; 7 A; 3 C; 5 G; 6 T; 0 U; 0 Other;
XX Query Match 0.8%; Score 14.2; DB 1; Length 21;
XX Best Local Similarity 84.2%; Pred. No. 9.1e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 587 CTGAGATTGGCTTTGGAA 605
XX ||||| ||||| |||||
XX 2 CTGAGATTGGATTGAAAA 20
XX
XX RESULT 1167
XX AAV51812
XX ID AAV51812 standard; DNA; 21 BP.
XX AC AAV51812;
XX 02-FEB-1999 (first entry)
XX Zea mays genome reverse PCR primer #108.
XX Polymorphic marker; allele-specific; probe; amplification; PCR primer;
XX hybridisation; plant; hybrid certification; genetic contribution;
XX progeny; back-cross; hybrid; ancestry; corn; ss.
XX Synthetic.
XX OS Zea mays.
XX WO9824796-A1.
XX 11-JUN-1998.
XX 01-DEC-1997; 97WO-US021782.

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XX 02-DEC-1996; 96US-0032069P.
XX 07-MAR-1997; 97US-00813507.
XX (AFFY-) AFFYMETRIX INC.
XX Lemieux B, Landry BS, Sapolsky RJ, Murigneux A;
XX WPI; 1998-333252/29.
XX Brassica species allele-specific oligonucleotide probes and primers -
XX useful for plant breeding.
XX Example 1; Page 51; 65pp; English.
XX AAV51705-V52008 are reverse PCR primers used to amplify fragments of the
XX Zea mays genome in order to detect polymorphic markers. Such markers can
XX be used in the construction of allele-specific primers and probes for
XX amplification or hybridisation, e.g. to determine common or disparate
XX ancestry between 2 or more plants, to monitor the genetic contribution of
XX an ancestral plant, to trace the progeny of proprietary plants, in
XX certification of a hybrid plant or to identify the progeny of a back-
XX crossed plant with an ancestral plant
XX Sequence 21 BP; 7 A; 3 C; 5 G; 6 T; 0 U; 0 Other;
XX Query Match 0.8%; Score 14.2; DB 1; Length 21;
XX Best Local Similarity 84.2%; Pred. No. 9.1e+02;
XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 587 CTGAGATTGGCTTTGGAA 605
XX ||||| ||||| |||||
XX 2 CTGAGATTGGATTGAAAA 20
XX
XX RESULT 1168
XX AAX09125/c
XX ID AAX09125 standard; DNA; 21 BP.
XX AC AAX09125;
XX 24-MAR-1999 (first entry)
XX Human biallelic polymorphic marker upstream primer #5.
XX Polymorphism; biallelic; human; forensic; paternity testing; disease;
XX detection; phenotypic typing; characteristic; infection; hereditary;
XX autoimmune disease; cancer; inflammation; drug; therapy; medicament;
XX treatment; marker; primer; ss.
XX Synthetic.
XX OS Homo sapiens.
XX WO9820165-A2.
XX 14-MAY-1998.
XX 05-NOV-1997; 97WO-US020313.
XX 06-NOV-1996; 96US-0030455P.
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX Lander ES, Wang D, Hudson T;
XX WPI; 1998-286974/25.
XX New isolated nucleic acid segments from the human genome - used for
XX determining polymorphic forms for use in e.g. forensics, paternity
XX testing or phenotypic typing for disease.
XX Claim 15; Page 46; 310pp; English.

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CC MAR-2003 to correct PR field.)

XX Sequence 21 BP; 8 A; 1 C; 7 G; 5 T; 0 U; 0 Other;

XX Sequence 21 BP; 8 A; 1 C; 7 G; 5 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 14.2; DB 1; Length 21;

Best Local Similarity 84.2%; Pred. No. 9.1e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1503 TTCCATATTTGCCTAAAG 1521

DB 19 TTCCATCTTCCACTAATG 1

RESULT 1171

AAZ26124

ID AAZ26124 standard; DNA; 21 BP.

XX AAZ26124;

AC AAZ26124;

XX 30-NOV-1999 (first entry)

DT Human polymorphic region 313.

DE Human polymorphic region 313.

XX Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH;

XX cell viability; loss of heterozygosity; precancerous condition; ASI;

XX allele specific inhibitor; somatic cell; diagnosis; prevention;

XX atherosclerotic plaque; premalignant metaplastic lesion; endometriosis;

XX dysplastic lesion; benign tumour; polycystic kidney disease; transplant;

XX graft versus host disease; malignant cell removal; bone marrow; ss.

XX Homo sapiens.

XX WO9841648-A2.

XX 24-SEP-1998.

XX 19-MAR-1998; 98WO-US005419.

XX 20-MAR-1997; 97US-0041057P.

XX (VARI-) VARIAGENICS INC.

XX Housman D, Ledley FD, Stanton VP;

XX WPI; 1998-521232/44.

XX Identifying target genes for allele-specific drugs - used for diagnosis,

XX prevention and treatment of, e.g. cancers, atherosclerotic plaque,

XX dysplastic lesions, endometriosis or graft versus host disease.

XX Disclosure; Fig 7; 605pp; English.

XX This invention describes a novel method for identifying an inhibitor

XX potentially useful for treatment of cancer, where the inhibitor is active

XX on a gene vital for cell growth or viability, and where the gene is

XX subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is

XX used for preventing the development of cancer in a patient having a

XX precancerous condition, by administering to the patient a first allele

XX specific inhibitor (ASI) targeted to an allele of a first essential gene

XX present in cells of the precancerous condition, where the normal somatic

XX cells of the patient are heterozygous for the first gene, the inhibitor

XX is active on at least one but less than all allelic forms of the gene

XX present in a population and targets only one allelic form present in the

XX normal somatic cells, and the first gene. The products and methods can be

XX used in the diagnosis, prevention and treatment of LOH disorders, e.g.

XX cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic

XX lesions, benign tumours, endometriosis, polycystic kidney disease, and

XX graft versus host disease. The method can also be used to remove

XX malignant cells from bone marrow transplants. AAZ25812-226825 represent

XX human polymorphic sites described in the method of the invention

XX Sequence 21 BP; 2 A; 12 C; 4 G; 3 T; 0 U; 0 Other;

XX Query Match 0.8%; Score 14.2; DB 1; Length 21;

XX Best Local Similarity 84.2%; Pred. No. 9.1e+02;

XX Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Query Match

Best Local Similarity

Matches 16; Conservative

QY 940 GGCTGGCTACTGCCACC 958

DB 3 GCCCTGGCTTCCGCCACC 21

RESULT 1172

AAZ26242/c

ID AAZ26242 standard; DNA; 21 BP.

XX AAZ26242;

AC AAZ26242;

XX 30-NOV-1999 (first entry)

DT Human polymorphic region 431.

DE Human polymorphic region 431.

XX Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH;

XX cell viability; loss of heterozygosity; precancerous condition; ASI;

XX allele specific inhibitor; somatic cell; diagnosis; prevention;

XX atherosclerotic plaque; premalignant metaplastic lesion; endometriosis;

XX dysplastic lesion; benign tumour; polycystic kidney disease; transplant;

XX graft versus host disease; malignant cell removal; bone marrow; ss.

XX Homo sapiens.

XX WO9841648-A2.

XX 24-SEP-1998.

XX 19-MAR-1998; 98WO-US005419.

XX 20-MAR-1997; 97US-0041057P.

XX (VARI-) VARIAGENICS INC.

XX Housman D, Ledley FD, Stanton VP;

XX WPI; 1998-521232/44.

XX Identifying target genes for allele-specific drugs - used for diagnosis,

XX prevention and treatment of, e.g. cancers, atherosclerotic plaque,

XX dysplastic lesions, endometriosis or graft versus host disease.

XX Disclosure; Fig 7; 605pp; English.

XX This invention describes a novel method for identifying an inhibitor

XX potentially useful for treatment of cancer, where the inhibitor is active

XX on a gene vital for cell growth or viability, and where the gene is

XX subject to loss of heterozygosity (LOH) in a cancer. The inhibitor is

XX used for preventing the development of cancer in a patient having a

XX precancerous condition, by administering to the patient a first allele

XX specific inhibitor (ASI) targeted to an allele of a first essential gene

XX present in cells of the precancerous condition, where the normal somatic

XX cells of the patient are heterozygous for the first gene, the inhibitor

XX is active on at least one but less than all allelic forms of the gene

XX present in a population and targets only one allelic form present in the

XX normal somatic cells, and the first gene. The products and methods can be

XX used in the diagnosis, prevention and treatment of LOH disorders, e.g.

XX cancers, atherosclerotic plaques, premalignant metaplastic or dysplastic

XX lesions, benign tumours, endometriosis, polycystic kidney disease, and

XX graft versus host disease. The method can also be used to remove

XX malignant cells from bone marrow transplants. AAZ25812-226825 represent

XX human polymorphic sites described in the method of the invention

XX Sequence 21 BP; 4 A; 9 C; 5 G; 3 T; 0 U; 0 Other;

XX Query Match

XX Best Local Similarity

XX Matches 16; Conservative

QY 940 GGCTGGCTACTGCCACC 958

DB 3 GCCCTGGCTTCCGCCACC 21

RESULT 1172

AAZ26242/c

ID AAZ26242 standard; DNA; 21 BP.

XX AAZ26242;

AC AAZ26242;

XX 30-NOV-1999 (first entry)

DT Human polymorphic region 431.

DE Human polymorphic region 431.

XX Polymorphism; human; inhibitor; cancer; treatment; cell growth; LOH;

XX cell viability; loss of heterozygosity; precancerous condition; ASI;

XX allele specific inhibitor; somatic cell; diagnosis; prevention;

XX atherosclerotic plaque; premalignant metaplastic lesion; endometriosis;

XX dysplastic lesion; benign tumour; polycystic kidney disease; transplant;

XX graft versus host disease; malignant cell removal; bone marrow; ss.

XX Homo sapiens.

XX WO9841648-A2.

XX 24-SEP-1998.

XX 19-MAR-1998; 98WO-US005419.

XX 20-MAR-1997; 97US-0041057P.

XX (VARI-) VARIAGENICS INC.

XX Housman D, Ledley FD, Stanton VP;

XX WPI; 1998-521232/44.

XX Identifying target genes for allele-specific drugs - used for diagnosis,

XX prevention and treatment of, e.g. cancers, atherosclerotic plaque,

XX dysplastic lesions, endometriosis or graft versus host disease.

XX Disclosure; Fig 7; 605pp; English.

XX This invention describes a novel method for identifying an inhibitor

Qy 217 GGCTGGATGAGAGTGGTG 235

Db 2 GGCTGGCTGTGAGTGGTG 20

```

XX Integrin beta 3; human endothelial glycoprotein; GP3A; GPIIIa; ITGB3;
KW CD61; platelet glycoprotein 3a; cellular adhesion; vitronectin receptor;
KW fibronectin receptor; expression inhibition; anticancer therapy;
KW tumour formation; cancer invasion; bleeding disorder; inflammation;
KW quantitative real-time PCR primer; ss.
XX
XX Homo sapiens.
OS
XX
XX US6037176-A.
PN
XX
XX 14-MAR-2000.
PD
XX
XX 25-JUN-1999; 99US-00344520.
PF
XX
XX 25-JUN-1999; 99US-00344520.
PR
XX
XX (ISIS-) ISIS PHARM INC.
PA
XX
XX Bennett CF, Cowse LM, Monia BP;
PI
XX
XX MPI; 2000-246189/21.
DR
XX
XX New antisense compound that inhibits human integrin beta3, useful e.g.
PT for treating or preventing infection, inflammation and tumors.
PT
XX
XX Example 13; Col 39; 33pp; English.
PS
XX
XX Sequences AAA07029-A07030 represent human integrin beta 3 PCR primers
CC used in quantitative real-time PCR with probe AAA07031 in an
CC exemplification of the present invention. The invention relates to
CC antisense oligonucleotides targetted to the human integrin beta 3 gene,
CC which inhibit its expression. A series of oligonucleotides (AAA07035-
CC AAA07074) were designed to target different regions of the human integrin
CC beta 3 RNA, and were analysed for their effect on integrin beta 3 mRNA
CC levels by quantitative real-time PCR. GAPDH (glyceraldehyde-3-phosphate)
CC mRNA levels were measured as a control. Integrins constitute one of four
CC classes of cellular adhesion molecules, and play an important role in
CC cell migration, cell anchorage to substrates and cytoadhesion signalling
CC pathways. They are heterodimeric cation-dependent membrane glycoproteins
CC composed of an alpha and beta subunit. Integrin beta 3 (also known as
CC human endothelial glycoprotein, GP3A, GPIIb, ITGB3, CD61 and platelet
CC glycoprotein 3a) is the common beta subunit partner of the members of the
CC beta-3 subfamily of integrins. This family consists of the vitronectin
CC receptor (alpha-v-beta-3) and the fibronectin receptor (alpha-IIb-beta-
CC 3). Cells expressing this class of integrin can adhere to various matrix
CC proteins and participate in various cytoadhesion-driven cellular
CC responses. Integrin beta 3 is implicated in conditions such as vascular
CC restenosis, excessive bone resorption, angiogenesis (in melanoma), tumour
CC invasion, platelet aggregation and Glanzmann's thrombasthenia. The
CC oligonucleotides of the invention are useful for diagnosis, prevention
CC and treatment of conditions associated with integrin beta 3 expression,
CC such as tumour formation, inflammation, infections and the diseases
CC mentioned above
XX
XX Sequence 21 BP; 5 A; 5 C; 6 G; 5 T; 0 U; 0 Other;
SQ
    Query Match          0.8%; Score 14.2; DB 1; Length 21;
    Best Local Similarity 84.2%; Pred. No. 9.1e+02;
    Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 614 CCTACATTAAAGCTGGACAA 632
Db 1 CCGTCATTAGCTGGACAA 19

RESULT 1176
AAZ59350/c
ID AAZ59350 standard; DNA; 21 BP.
XX
XX AAZ59350;
AC
XX
XX 05-APR-2000 (first entry)
DT

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```

XX Human STP2 gene promoter polymorphism sequence 108.
DE
XX Single nucleotide polymorphism; SNP; STP2; phenol sulphotransferase;
KW probe; genotyping; human; drug metabolism; ss.
KW
XX Homo sapiens.
OS
XX
XX Key Location/Qualifiers
FH variation II
FT /*tag= a
FT /note= "Site of polymorphism"
XX
XX WO9964630-A1.
PN
XX 16-DEC-1999.
PD
XX
XX 09-JUN-1999; 99WO-US013094.
PF
XX
XX 10-JUN-1998; 98US-0088710P.
PR
XX
XX (AXYS-) AXYS PHARM INC.
PA
XX
XX Guida M, Kurth J;
PI
XX
XX MPI; 2000-105892/09.
DR
XX
XX Novel nucleic acid used for genotyping, e.g. to predict rate of drug
PT metabolism.
PT
XX Claim 2; Page 17; 46pp; English.
XX
XX Sequences AAZ59305-259352 are fragments of the human STP2 gene. The
CC fragments are from the 8 exons, the promoter region, 3' and 5',
CC untranslated regions of the STP2 gene. Each sequence contains a newly
CC identified STP2 gene single nucleotide polymorphism (SNP). STP2 is a
CC phenol sulphotransferase. Substrates for STP2 include minoxidil,
CC acetaminophen, and paracetamol. Several of the nucleotide changes
CC identified at the polymorphism sites, give rise to an amino acid change.
CC Amino acid changes may result in altered enzyme activity. The sequences
CC can be used as probes for detecting STP2 polymorphisms. The polymorphic
CC probes are used in screening and genotyping, i.e. to predict the rate of
CC metabolism of STP2 substrates, potential drug-drug interactions and
CC adverse side effects. They can also be used to detect diseases resulting
CC from accidental or occupational exposure to toxins and to establish
CC animal, cell or in vitro models for drug metabolism
XX
XX Sequence 21 BP; 2 A; 9 C; 2 G; 8 T; 0 U; 0 Other;
SQ
    Query Match          0.8%; Score 14.2; DB 1; Length 21;
    Best Local Similarity 84.2%; Pred. No. 9.1e+02;
    Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 26 GAATGCGAGAGGTAGGCAGG 44
Db 19 GAAAGCTGAGATAGGCAGG 1

RESULT 1177
AAZ73744/c
ID AAZ73744 standard; DNA; 21 BP.
XX
XX AAZ73744;
AC
XX
XX 10-SEP-2001 (first entry)
DT
XX
XX Human biallelic marker downstream amplification primer SEQ ID NO:8100.
DE
XX Human genome; biallelic marker; high density disequilibrium map;
KW genomic map; haplotype; phenotype; polymorphic base; genotyping;
KW haplotyping; hybridisation; identification; characterisation;
KW amplification; single nucleotide polymorphism; SNP; PCR primer;
KW diagnosis; ss.
KW

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XX Homo sapiens.
OS WO9954500-A2.
XX PD 28-OCT-1999.
XX PF 21-APR-1999; 99WO-1B000822.
XX PR 21-APR-1998; 98US-0082614P.
XX PR 23-NOV-1998; 98US-0109732P.
XX PA (GEST ) GENSET.
XX PI Cohen D, Blumenfeld M, Chumakov I;
XX WPI; 2000-013267/01.
XX PT Novel biallelic markers used to construct a high density disequilibrium
XX map of the human genome.
XX PS Claim 8; Page 1957; 2745pp; English.
XX AAZ56564 to AAZ69578 represent human biallelic markers from the present
XX invention, which contain a polymorphic base at position 24 of their
XX nucleotide sequences. AAZ69579 to AAZ77440 represent amplification
XX primers for the biallelic markers. The biallelic markers of the invention
XX have a variety of uses: they can be used for high density mapping of the
XX human genome, and in complex association studies and haplotyping studies
XX which are useful in determining the genetic basis for disease states.
XX CC Compositions and methods of the invention can also be useful for the
XX identification of the targets for the development of pharmaceutical
XX agents and diagnostic methods, as well as the characterisation of the
XX differential efficacious responses to and side effects from
XX pharmaceutical agents acting on a disease as well as other treatment.
XX N.B. The SEQ ID NOs 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3237 and
XX 3367, are not actually given a sequence in the Sequence Listing from the
XX present invention
XX SQ Sequence 21 BP; 7 A; 4 C; 5 G; 5 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 392 CGGATCAGGTGCAGTCTCC 410
DB 21 CAGATGATTGCAGTCTCC 3
RESULT 1178
AAZ56234
ID AAZ56234 standard; DNA; 21 BP.
AC AAZ56234;
XX 15-MAR-2000 (first entry)
XX DE Mutated Influenza virus NA gene sequence primer SEQ ID NO:1.
XX KW Recombinant negative strand viral RNA template; virus particle;
XX KW RNA directed RNA polymerase complex; expression; chimeric virus; vaccine;
XX KW packaging; ss.
XX OS Influenza virus.
XX OS Synthetic.
XX PN US6001634-A.
XX PD 14-DEC-1999.
XX PR 29-JUN-1998; 98US-00106377.
XX PF
XX

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PR 28-AUG-1989; 89US-00399728.
PR 21-NOV-1989; 89US-00440053.
PR 22-MAY-1990; 90US-00527237.
PR 04-AUG-1992; 92US-00925061.
PR 01-FEB-1994; 94US-00190698.
PR 01-JUN-1994; 94US-00252508.
XX (PALE/) PALESE P.
XX (GARC/) GARCIA-SASTRE A.
XX PI Palese P, Garcia-Sastre A;
XX WPI; 2000-071660/06.
XX PT Chimeric virus containing influenza virus RNA segments, useful for
XX expressing heterologous gene products in appropriate host cell systems.
XX PS Example; Col 55; 67pp; English.
XX The present invention describes a chimeric virus comprising influenza
XX virus containing a heterologous RNA segment from another strain of
XX influenza virus or 8 genomic segments from different strains of influenza
XX virus, with each segment comprising the reverse complement of a mRNA
XX coding sequence operatively linked to a binding site specific for an RNA-
XX directed RNA polymerase of a negative strand RNA virus. The recombinant
XX negative strand virus RNA templates may be used to express heterologous
XX gene products in appropriate host cell systems and/or to construct
XX recombinant viruses that express, package and/or present the heterologous
XX gene product. The expression products and chimeric viruses may be used in
XX vaccine formulations. AA57746 to AA57748, and AA56234 to AA56290,
XX represent sequences used in the exemplification of the present invention
XX SQ Sequence 21 BP; 6 A; 3 C; 5 G; 7 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 908 ACGTGAACACTGTTCCCTGTT 926
DB 2 ACGAGGAAATGTTCCCTGTT 20
RESULT 1179
AAZ97537/C
ID AAZ97537 standard; DNA; 21 BP.
AC AAZ97537;
XX 06-JUN-2001 (first entry)
XX DE Human gene single nucleotide polymorphism #2298.
XX KW Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
XX KW polymorphism; vascular disease; coronary artery disease; forensics;
XX KW myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
XX KW pulmonary embolism; paternity test; ds.
XX OS Homo sapiens.
XX PH Key Location/Qualifiers
XX Variation replace(11,G)
XX FT /*tag= a
XX FT /standard_name= "single nucleotide polymorphism"
XX PN WO200118250-A2.
XX PD 15-MAR-2001.
XX PF 07-SEP-2000; 2000WO-US024503.
XX PR 10-SEP-1999; 99US-0153357P.
XX PR 26-JUL-2000; 2000US-0220947P.

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PR 16-AUG-2000; 2000US-0225724P.
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
PA (MILL-) MILLENNIUM PHARM INC.
XX
XX Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, Mccarthy JJ;
XX WPI; 2001-226749/23.
XX
XX Nucleic acids comprising single nucleotide polymorphisms, useful in
PT applications such as forensics, paternity testing, medicine, genetic
PT analysis and phenotype correlations to diseases such as diabetes and
PT atherosclerosis.
XX
XX Example; Page 204; 242pp; English.
XX
XX The present invention provides a method of diagnosing a vascular disease
CC in an individual, involving determining the sequence at various
CC polymorphic sites within the human thrombospondin 1 and thrombospondin 4
CC genes. The sequences at a number of polymorphic sites are also provided
CC in the specification. In particular, the method can be used in the
CC diagnosis of atherosclerosis, myocardial infarction, coronary heart
CC disease, stroke, peripheral vascular diseases, venous thromboembolism and
CC pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also
CC useful in forensics, paternity testing, genetic analysis and phenotype
CC correlations to diseases. The present sequence is an example of one of
CC the human gene SNPs shown in the specification
XX
SQ Sequence 21 BP; 3 A; 6 C; 9 G; 3 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 490 GACATCCGCTGCTGAGG 508
Db 21 GCCCTCCGCTGCTGAGG 3

RESULT 1180
AAF95312
ID AAF95312 standard; DNA; 21 BP.
AC AAF95312;
XX
XX 06-JUN-2001 (first entry)
XX
XX Human gene single nucleotide polymorphism #73.
XX
XX Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
XX polymorphism; vascular disease; coronary artery disease; forensics;
XX myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
XX pulmonary embolism; paternity test; ds.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX Variation replace(11,C)
XX /*tag= a
XX /*standard_name= "single nucleotide polymorphism"
XX
XX WO200118250-A2.
XX
XX 15-MAR-2001.
XX
XX 07-SEP-2000; 2000WO-US024503.
XX
XX 10-SEP-1999; 99US-0153357P.
XX 26-JUL-2000; 2000US-0220947P.
XX 16-AUG-2000; 2000US-0225724P.
XX
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX (MILL-) MILLENNIUM PHARM INC.
XX
XX Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, Mccarthy JJ;
XX WPI; 2001-226749/23.
XX

```

```

XX
XX Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, Mccarthy JJ;
XX WPI; 2001-226749/23.
XX
XX Nucleic acids comprising single nucleotide polymorphisms, useful in
PT applications such as forensics, paternity testing, medicine, genetic
PT analysis and phenotype correlations to diseases such as diabetes and
PT atherosclerosis.
XX
XX Example; Page 51; 242pp; English.
XX
XX The present invention provides a method of diagnosing a vascular disease
CC in an individual, involving determining the sequence at various
CC polymorphic sites within the human thrombospondin 1 and thrombospondin 4
CC genes. The sequences at a number of polymorphic sites are also provided
CC in the specification. In particular, the method can be used in the
CC diagnosis of atherosclerosis, myocardial infarction, coronary heart
CC disease, stroke, peripheral vascular diseases, venous thromboembolism and
CC pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also
CC useful in forensics, paternity testing, genetic analysis and phenotype
CC correlations to diseases. The present sequence is an example of one of
CC the human gene SNPs shown in the specification
XX
SQ Sequence 21 BP; 9 A; 5 C; 4 G; 3 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 719 AACATGAAGAGGGGGCCACC 737
Db 1 AACATTAGAGTCCACC 19

RESULT 1181
AAF96385
ID AAF96385 standard; DNA; 21 BP.
AC AAF96385;
XX
XX 06-JUN-2001 (first entry)
XX
XX Human gene single nucleotide polymorphism #1146.
XX
XX Human; variant thrombospondin 1; variant thrombospondin 4; SNP;
XX polymorphism; vascular disease; coronary artery disease; forensics;
XX myocardial infarction; atherosclerosis; stroke; venous thromboembolism;
XX pulmonary embolism; paternity test; ds.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX Variation replace(11,A)
XX /*tag= a
XX /*standard_name= "single nucleotide polymorphism"
XX
XX WO200118250-A2.
XX
XX 15-MAR-2001.
XX
XX 07-SEP-2000; 2000WO-US024503.
XX
XX 10-SEP-1999; 99US-0153357P.
XX 26-JUL-2000; 2000US-0220947P.
XX 16-AUG-2000; 2000US-0225724P.
XX
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.
XX (MILL-) MILLENNIUM PHARM INC.
XX
XX Lander ES, Gargill M, Ireland JS, Bolk S, Daley GQ, Mccarthy JJ;
XX WPI; 2001-226749/23.
XX

```

XX Nucleic acids comprising single nucleotide polymorphisms, useful in  
PT applications such as forensics, paternity testing, medicine, genetic  
PT analysis and phenotype correlations to diseases such as diabetes and  
PT atherosclerosis.  
XX  
XX Example; Page 130; 242pp; English.  
XX  
XX The present invention provides a method of diagnosing a vascular disease  
CC in an individual, involving determining the sequence at various  
CC polymorphic sites within the human thrombospondin 1 and thrombospondin 4  
CC genes. The sequences at a number of polymorphic sites are also provided  
CC in the specification. In particular, the method can be used in the  
CC diagnosis of atherosclerosis, myocardial infarction, coronary heart  
CC disease, stroke, peripheral vascular diseases, venous thromboembolism and  
CC pulmonary embolism. Single nucleotide polymorphisms (SNPs) are also  
CC useful in forensics, paternity testing, genetic analysis and phenotype  
CC correlations to diseases. The present sequence is an example of one of  
CC the human gene SNPs shown in the specification  
XX  
XX Sequence 21 BP; 5 A; 4 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1167 GGGCTGCATCTCTATGAG 1185  
||||| ||| |||||  
DB 1 GGGCATCAGCTTCTATGAG 19

RESULT 1182  
AAH62348  
ID AAH62348 standard; DNA; 21 BP.  
XX  
XX AAH62348;  
DT 09-SEP-2004 (revised)  
DT 12-SEP-2001 (first entry)  
XX  
XX ATF3 polymorphism containing DNA fragment #249.  
DE Single nucleotide polymorphism; SNP; human; cancer; inflammation;  
KW heart disease; paternity testing; forensic science; ds.  
XX  
XX Homo sapiens.  
OS Unidentified.

XX Key Location/Qualifiers  
FH variation 11  
FT /\*tag= a  
FT /standard\_name= "single nucleotide polymorphism"  
XX  
XX WO200138576-A2.  
XX 31-MAY-2001.  
XX  
XX 17-NOV-2000; 2000WO-US031639.  
XX  
XX 24-NOV-1999; 99US-0167334P.  
XX  
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
XX  
XX Cargill M, Ireland JS, Lander ES;  
XX  
XX WPI; 2001-367705/38.

XX New nucleic acid segments of the human genome, particularly from genes  
PT including polymorphic sites, for phenotype correlation, forensics,  
PT paternity testing, medicine and genetic analysis.  
XX  
XX Claim 1; Page 49; 80pp; English.

CC DNA sequences AAH62100 - AAH62688 represent segments of human genes which  
CC contain single nucleotide polymorphisms (SNPs). A method is included in  
CC the invention for analysing a nucleic acid sample, which consists of  
CC determining the base occupying any one of the polymorphic sites given in  
CC the SNP containing sequences. The nucleotide sequences can be used in the  
CC diagnosis or monitoring of diseases, such as cancer, inflammation, heart  
CC diseases, diseases of the cardiovascular system, and infection by  
CC microorganisms. The oligonucleotides are also useful in the manufacture  
CC of a medicament for the treatment or prophylaxis of the diseases, and as  
CC a pharmaceutical. SNP containing oligonucleotides are useful in  
CC applications such as phenotype correlation, forensics, paternity testing,  
CC medicine and genetic analysis

XX Revised record issued on 09-SEP-2004 : Correction to Feature Table Key  
XX  
XX Sequence 21 BP; 3 A; 4 C; 11 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 39 GCGAGGAGGACCGCAGTG 57  
||||| ||| |||||  
DB 1 GCGGGAGGGCCTGCAGTG 19

RESULT 1183  
AAH62637  
ID AAH62637 standard; DNA; 21 BP.  
XX  
XX AAH62637;  
DT 09-SEP-2004 (revised)  
DT 12-SEP-2001 (first entry)  
XX  
XX Opiate receptor like 1 polymorphism containing DNA fragment #538.  
DE Single nucleotide polymorphism; SNP; human; cancer; inflammation;  
KW heart disease; paternity testing; forensic science; ds.  
XX  
XX Homo sapiens.  
OS Unidentified.

XX Key Location/Qualifiers  
FH variation 11  
FT /\*tag= a  
FT /standard\_name= "single nucleotide polymorphism"  
XX  
XX WO200138576-A2.  
XX 31-MAY-2001.  
XX  
XX 17-NOV-2000; 2000WO-US031639.  
XX  
XX 24-NOV-1999; 99US-0167334P.  
XX  
XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.  
XX  
XX Cargill M, Ireland JS, Lander ES;  
XX  
XX WPI; 2001-367705/38.

XX New nucleic acid segments of the human genome, particularly from genes  
PT including polymorphic sites, for phenotype correlation, forensics,  
PT paternity testing, medicine and genetic analysis.  
XX  
XX Claim 1; Page 72; 80pp; English.

XX DNA sequences AAH62100 - AAH62688 represent segments of human genes which  
CC contain single nucleotide polymorphisms (SNPs). A method is included in  
CC the invention for analysing a nucleic acid sample, which consists of  
CC determining the base occupying any one of the polymorphic sites given in  
CC the SNP containing sequences. The nucleotide sequences can be used in the



KW Human; RecQ5 alpha; RecQ5 beta; RecQ5 gamma; DNA helicase;  
 XW alternative splicing; chromosomal instability; primer; ss.  
 XX Homo sapiens.  
 XX WO200125425-A1.  
 XX 12-APR-2001.  
 XX 25-AUG-2000; 2000WO-JP005757.  
 XX 05-OCT-1999; 99JP-00284001.  
 XX (AGEN-) AGENE RES INST CO LTD.  
 XX Furuichi Y, Shimamoto A, Kitao S, Nishikawa K;  
 XX WPI; 2001-273577/28.  
 XX Polynucleotide encoding for RecQ5beta helicase useful for diagnosis and  
 XX treatment of chromosomal instability.  
 XX Example 2; Page 32; 97pp; Japanese.  
 XX The present sequence is a primer used to sequence a polynucleotide  
 XX encoding a human RecQ5 type DNA helicase. The three RecQ5 type helicases  
 XX alpha, beta and gamma are formed by alternative splicing. The invention  
 XX discloses the RecQ5 type DNA helicases beta and gamma, and the genes  
 XX encoding them. The RecQ5 beta DNA helicase has a novel characteristic of  
 XX being localised in the nucleus. It is useful as a diagnostic marker or in  
 XX the treatment of diseases associated with chromosomal instability  
 XX Sequence 21 BP; 6 A; 2 C; 9 G; 4 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 823 AAGTCCCTCACCCCTGTCT 841  
 DB 20 AAGTCCCTCACCCCTTCT 2  
 RESULT 1187  
 AAC86918/c  
 ID AAC86918 standard; RNA; 21 BP.  
 XX AAC86918;  
 XX 02-APR-2001 (first entry)  
 XX Critical sequence of a ribozyme targeting the oestrogen receptor.  
 XX Ribozyme; oestrogen-dependent tumour; cell proliferation; glucocorticoid;  
 XW DNA-binding domain; oestrogen receptor; cancer treatment; breast cancer;  
 KW ss.  
 XX Synthetic.  
 XX WO200074485-A1.  
 XX 14-DEC-2000.  
 XX 02-JUN-2000; 2000WO-US015243.  
 XX 04-JUN-1999; 99US-0137470P.  
 XX (TEXA) UNIV TEXAS.  
 XX Roy AK, Lavrovsky Y, Tyagi RK, Song CS, Chatterjee B;  
 XX WPI; 2001-061633/07.  
 XX

PT Ribozyme having a high substrate specificity for an mRNA encoding a DNA-  
 PT binding domain of human estrogen receptor, useful for inhibiting estrogen  
 PT -dependent tumor cell proliferation, particularly breast cancer.  
 XX Claim 4; Page 6; 49pp; English.  
 XX The specification describes a ribozyme capable of inhibiting oestrogen-  
 CC dependent tumour cell proliferation and having a high substrate  
 CC specificity for an mRNA sequence encoding a DNA-binding domain of human  
 CC oestrogen receptor. The ribozyme is free of endonuclease activity for an  
 CC mRNA having a DNA binding domain of a glucocorticoid. The oestrogen  
 CC receptor site-specific ribozymes are useful for cancer treatment and  
 CC therapies, especially for inhibiting oestrogen-dependent tumour cell  
 CC proliferation, particularly breast cancer. The present sequenc represents  
 CC the critical sequence of a ribozyme of the invention, which targets the  
 CC the DNA binding domain of a human oestrogen receptor  
 XX Sequence 21 BP; 7 A; 3 C; 8 G; 0 T; 3 U; 0 Other;  
 SQ Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1571 ACTCAGGCAGCCAGCTTT 1589  
 DB 19 ACTCAGGCAGCTCTGCTTT 1  
 RESULT 1188  
 AAD09996/c  
 ID AAD09996 standard; DNA; 21 BP.  
 XX AAD09996;  
 XX 12-SEP-2001 (first entry)  
 XX Mus musculus goosecoid exon 2 DNA amplifying exon 2 forward PCR primer.  
 DE Mouse; fertility; reproduction; gametogenesis; microinjection; infection;  
 XW goosecoid gene; PCR primer; embryogenesis; ss.  
 XX Mus musculus.  
 XX WO200148224-A1.  
 XX 05-JUL-2001.  
 XX 22-DEC-2000; 2000WO-AU001596.  
 XX 24-DEC-1999; 99AU-00004884.  
 XX (CSIR) COMMONWEALTH SCI & IND RES ORG.  
 XX Thresher R, Hinds L, Hardy C, Whyard S, Vignarajan S, Grewe PM;  
 PI Patil J;  
 XX WPI; 2001-425672/45.  
 XX Novel construct for preventing embryogenesis in animals comprises native  
 PT promoter, blocking DNA which abrogates function of crucial gene and  
 PT genetic switch to regulate expression/repression of blocker/gene  
 PT knockout.  
 XX Example 13; Page 104; 241pp; English.  
 XX The invention relates to a construct which allows animals to be bred in  
 CC captivity but renders them infertile in the wild by allowing reversible  
 CC control over fertility and reproduction. The construct comprises a native  
 CC promoter, a blocking DNA sequence contoured for and designed to abrogate  
 CC a crucial gene's function or to cause its mis-expression, and a genetic  
 CC switch to regulate controlled expression/repression of the blocker/gene  
 CC knockout. The construct is useful for preventing embryogenesis or  
 CC gametogenesis in animals by stably transforming an animal cell with the

CC construct by microinjection, transfection or infection, where the  
 CC construct stably integrates into the genome by homologous recombination,  
 CC and implanting the cell into a host organism, where a whole animal  
 CC develops from the implanted cell. The present sequence is a PCR primer  
 CC used for amplifying mouse goosecoid exon 2 DNA  
 XX  
 SQ Sequence 21 BP; 2 A; 7 C; 7 G; 5 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1328 AGTACCGAGCCGAGCCCT 1346  
 ||||| ||||| |||||  
 Db 21 AGTACAGAACCGGGGCCCT 3  
 RESULT 1189  
 ABK65778  
 ID ABK65778 standard; DNA; 21 BP.  
 AC ABK65778;  
 XX  
 XX  
 DT 02-JUL-2002 (first entry)  
 XX  
 XX Human single nucleotide polymorphism #398.  
 DE Human; single nucleotide polymorphism; SNP; sickle cell anaemia;  
 KW agammaglobulinaemia; diabetes insipidus; Lesch-Nyhan syndrome;  
 KW muscular dystrophy; Wiskott-Aldrich syndrome; Fabry's disease;  
 KW familial hypercholesterolaemia; polycystic kidney disease; cancer;  
 KW hereditary spherocytosis; Von Willebrand's disease; tuberous sclerosis;  
 KW Ehlers-Danlos syndrome; osteogenesis imperfecta; familial colonic polyposis;  
 KW acute intermittent porphyria; inflammation; autoimmune disease;  
 KW acute rheumatoid arthritis; multiple sclerosis; diabetes;  
 KW systemic lupus erythematosus; Graves disease; longevity; obesity;  
 KW baldness; fertility; forensic; paternity testing; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2002037508-A1.  
 XX 28-MAR-2002.  
 XX 18-JAN-2001; 2001US-00765081.  
 XX 19-JAN-2000; 2000US-0176861P.  
 XX (CARG/) CARGILL M.  
 XX (IREL/) IRELAND J S.  
 XX (LAND/) LANDER E S.  
 XX Cargill M, Ireland JS, Lander ES;  
 XX WPI; 2002-315108/35.  
 XX Nucleic acid comprising single nucleotide polymorphisms, useful in  
 PT forensics, paternity testing and diagnosis of disease.  
 XX  
 XX Claim 1; Page 86; 96pp; English.  
 CC The invention relates to a nucleic acid comprising single nucleotide  
 CC polymorphisms (SNPs) associated with diseases. The nucleic acids  
 CC comprising the SNPs and probes and primers for detecting them may be used  
 CC in assays for the diagnosis of diseases associated with SNPs (such as  
 CC sickle cell anaemia, agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan  
 CC syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,  
 CC familial hypercholesterolaemia, polycystic kidney disease, hereditary  
 CC spherocytosis, Von Willebrand's disease, tuberous sclerosis, hereditary  
 CC haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos  
 CC syndrome, osteogenesis imperfecta, and acute intermittent porphyria,  
 CC symptoms of, or susceptibility to, multifactorial diseases of which a

CC component is or may be genetic, such as autoimmune diseases,  
 CC inflammation, cancer, diseases of the nervous system, and infection by  
 CC pathogenic microorganisms, autoimmune diseases including rheumatoid  
 CC arthritis, multiple sclerosis, diabetes (insulin-dependent and non-  
 CC independent), systemic lupus erythematosus and Graves disease, cancers  
 CC including cancers of the bladder, brain, breast, colon, oesophagus,  
 CC kidney, leukaemia, liver, lung, oral cavity, ovary, pancreas, prostate,  
 CC skin, stomach and uterus, longevity, appearance (e.g., baldness,  
 CC obesity), strength, speed, endurance, fertility, and susceptibility or  
 CC receptivity to particular drugs or therapeutic treatments), in forensics  
 CC and in paternity testing. ABK65381-ABK65841 represent human single  
 CC nucleotide polymorphisms of the invention  
 XX  
 SQ Sequence 21 BP; 4 A; 11 C; 2 G; 3 T; 0 U; 1 Other;  
 Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 1382 CCGACCTCCTCACCAGCT 1400  
 ||||| ||||| ||||| |||||  
 Db 1 CCGAGCTCCTRACCAACCT 19  
 RESULT 1190  
 ABK65823/c  
 ID ABK65823 standard; DNA; 21 BP.  
 AC ABK65823;  
 XX  
 XX 02-JUL-2002 (first entry)  
 XX  
 XX Human single nucleotide polymorphism #443.  
 DE Human; single nucleotide polymorphism; SNP; sickle cell anaemia;  
 KW agammaglobulinaemia; diabetes insipidus; Lesch-Nyhan syndrome;  
 KW muscular dystrophy; Wiskott-Aldrich syndrome; Fabry's disease;  
 KW familial hypercholesterolaemia; polycystic kidney disease; cancer;  
 KW hereditary spherocytosis; Von Willebrand's disease; tuberous sclerosis;  
 KW Ehlers-Danlos syndrome; osteogenesis imperfecta; familial colonic polyposis;  
 KW acute intermittent porphyria; inflammation; autoimmune disease;  
 KW infection; rheumatoid arthritis; multiple sclerosis; diabetes;  
 KW systemic lupus erythematosus; Graves disease; longevity; obesity;  
 KW baldness; fertility; forensic; paternity testing; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX US2002037508-A1.  
 XX 28-MAR-2002.  
 XX 18-JAN-2001; 2001US-00765081.  
 XX 19-JAN-2000; 2000US-0176861P.  
 XX (CARG/) CARGILL M.  
 XX (IREL/) IRELAND J S.  
 XX (LAND/) LANDER E S.  
 XX Cargill M, Ireland JS, Lander ES;  
 XX WPI; 2002-315108/35.  
 XX Nucleic acid comprising single nucleotide polymorphisms, useful in  
 PT forensics, paternity testing and diagnosis of disease.  
 XX  
 XX Claim 1; Page 92; 96pp; English.  
 CC The invention relates to a nucleic acid comprising single nucleotide  
 CC polymorphisms (SNPs) associated with diseases. The nucleic acids  
 CC comprising the SNPs and probes and primers for detecting them may be used  
 CC in assays for the diagnosis of diseases associated with SNPs (such as

CC sickle cell anaemia, agammaglobulinaemia, diabetes insipidus, Lesch-Nyhan  
 CC syndrome, muscular dystrophy, Wiskott-Aldrich syndrome, Fabry's disease,  
 CC familial hypercholesterolaemia, polycystic kidney disease, hereditary  
 CC spherocytosis, Von Willebrand's disease, tuberous sclerosis, hereditary  
 CC haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos  
 CC syndrome, osteogenesis imperfecta, and acute intermittent porphyria,  
 CC symptoms of, or susceptibility to, multifactorial diseases of which a  
 CC component is or may be genetic, such as autoimmune diseases,  
 CC inflammation, cancer, diseases of the nervous system, and infection by  
 CC pathogenic microorganisms, autoimmune diseases including rheumatoid  
 CC arthritis, multiple sclerosis, diabetes (insulin-dependent and non-  
 CC independent), systemic lupus erythematosus and Graves disease, cancers  
 CC including cancers of the bladder, brain, breast, colon, oesophagus,  
 CC kidney, leukaemia, liver, lung, oral cavity, ovary, pancreas, prostate,  
 CC skin, stomach and uterus, longevity, appearance (e.g., baldness,  
 CC obesity), strength, speed, endurance, fertility, and susceptibility or  
 CC receptivity to particular drugs or therapeutic treatments), in forensics  
 CC and in paternity testing. ABK65381-ABK65841 represent human single  
 CC nucleotide polymorphisms of the invention

XX Sequence 21 BP; 6 A; 5 C; 7 G; 2 T; 0 U; 1 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 76.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 201 TGCCCTGAGCATAGGCTT 221

DB 21 TGCCCTGAGTTCATGCTCT 1

RESULT 1191

ABK40345  
 ID ABK40345 standard; DNA; 21 BP.

AC ABK40345;

DT 15-JUL-2002 (first entry)

XX Forward PCR primer for human PRO4316 DNA.

XX Human; PRO; benign tumour; malignant tumour; lymphoid malignancy;  
 KW leukaemia; neuronal disorder; stromal disorder; blastocoelec disorder;  
 KW inflammatory disorder; immune disorder; angiogenic disorder; cytostatic;  
 KW neuroprotective; PCR; primer; ss.

XX Homo sapiens.

XX WO200153486-A1.

XX 26-JUL-2001.

XX 11-FEB-2000; 2000WO-US003565.

XX 08-MAR-1999; 99WO-US005028.

XX 11-MAR-1999; 99US-0123972P.

XX 02-JUN-1999; 99US-0133459P.

XX 22-JUN-1999; 99WO-US012252.

XX 22-JUN-1999; 99US-0140650P.

XX 20-JUL-1999; 99US-0144758P.

XX 26-JUL-1999; 99US-0145688P.

XX 28-JUL-1999; 99US-0146222P.

XX 17-AUG-1999; 99US-0149395P.

XX 31-AUG-1999; 99US-0151689P.

XX 01-SEP-1999; 99WO-US020111.

XX 15-SEP-1999; 99WO-US021090.

XX 30-NOV-1999; 99WO-US028313.

XX 01-DEC-1999; 99WO-US028301.

XX 05-JAN-2000; 2000WO-US000219.

XX (GETH ) GENENTECH INC.

XX

PI Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan KJ;

PI Marsters SA, Pan J, Pitti RM, Roy MA, Smith V, Stone DM;

PI Watanabe CK, Wood WI;

XX WPI; 2002-205567/26.

XX Thirty five nucleic acids encoding PRO polypeptides, useful for treating  
 PT benign or malignant tumors, leukemias and lymphoid malignancies,  
 PT inflammatory, angiogenic and immunologic disorders.

XX Example 24; Page 136; 302pp; English.

XX The present invention relates to the isolation of novel human PRO  
 CC polypeptides (AAU86128-AAU86162) and the polynucleotide sequences  
 CC encoding them. The PRO polypeptides, agonists, antagonists or anti-PRO  
 CC antibodies are useful for treating benign or malignant tumours (e.g.  
 CC renal, kidney, bladder, breast, etc), leukaemias and lymphoid  
 CC malignancies, other disorders such as neuronal, glial, astrocytal,  
 CC hypothalamic, glandular, macrophagal, stromal and blastocoelec disorders,  
 CC inflammatory, immune and angiogenic disorders. The polynucleotide  
 CC sequences are also useful in gene therapy. The present sequence  
 CC represents a PCR primer used in the methods of the present invention

XX Sequence 21 BP; 6 A; 5 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 507 GGGCTACCTGGAGAGCTG 525

DB 2 GGACGACCAGGAGAGCTG 20

RESULT 1192

ABS60153/C

ID ABS60153 standard; DNA; 21 BP.

AC ABS60153;

XX 05-NOV-2002 (first entry)

XX Human polymorphism associated DNA sequence #47.

XX Aminopeptidase P; XPNP2; bradykinin receptor B1; ds; BDKRB1;  
 KW tachykinin receptor B1; TACR1; Cl esterase inhibitor; CLNH; kallikrein 1;  
 KW KIX1; bradykinin receptor B2; BDKRB2; gene therapy;  
 KW angiotensin converting enzyme 2; ACE2; protease inhibitor 4; PI4;  
 KW polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma;  
 KW cardiovascular disease; angina pectoris; hypertension; heart failure;  
 KW myocardial infarction; ventricular hypertrophy; vascular disease;  
 KW aneurysm; embolism; thrombosis; coronary artery disease; angiodaema;  
 KW arteriosclerosis; atherosclerosis; hypersensitivity; sepsis;  
 KW autoimmune disease; inflammatory arthritis; cancer; wound;  
 KW viral infection; bacterial infection; fungal infection; COPD;  
 KW Chronic obstructive pulmonary disease; enterocolitis.

XX Homo sapiens.

XX WO200261131-A2.

XX 08-AUG-2002.

XX 03-DEC-2001; 2001WO-US047235.

XX 04-DEC-2000; 2000US-0251015P.

XX 23-JAN-2001; 2001US-0263678P.

XX 02-MAR-2001; 2001US-0273037P.

XX (BRIM ) BRISTOL-MYERS SQUIBB CO.  
 XX (TSUC//) TSUCHIHASHI Z.

XX (HUIL//) HUI L.





CC and biological samples. The present sequence is included in the sequence  
 CC listing but is not referred to anywhere else in the specification  
 XX  
 SQ Sequence 21 BP; 5 A; 4 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1537 AAGGAGGCCAGCCTTCGGT 1555  
 ||||| ||||| ||||| |||||  
 Db 2 AAGGTGGACAGTCTTCGGT 20

RESULT 1194  
 ABS60249  
 ID ABS60249 standard; DNA; 21 BP.  
 AC  
 ABS60249;  
 DT 05-NOV-2002 (first entry)  
 XX Human polymorphism associated DNA sequence #143.

XX Amino peptidase P; XPNEP2; bradykinin receptor B1; ds; BDKRB1;  
 KW tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; kallikrein 1;  
 KW KLK1; bradykinin receptor B2; BDKRB2; gene therapy;  
 KW angiotensin converting enzyme 2; ACE2; protease inhibitor 4; PI4;  
 KW polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma;  
 KW cardiovascular disease; angina pectoris; hypertension; heart failure;  
 KW myocardial infarction; ventricular hypertrophy; vascular disease;  
 KW aneurysm; embolism; thrombosis; coronary artery disease; angioedema;  
 KW arteriosclerosis; atherosclerosis; hypersensitivity; sepsis;  
 KW autoimmune disease; inflammatory arthritis; cancer; wound;  
 KW viral infection; bacterial infection; fungal infection; COPD;  
 KW Chronic obstructive pulmonary disease; enterocolitis.

XX Homo sapiens.  
 OS  
 XX WO200261131-A2.  
 XX 08-AUG-2002.  
 XX 03-DEC-2001; 2001WO-US047235.  
 XX 04-DEC-2000; 2000US-0251015P.  
 XX 23-JAN-2001; 2001US-0263678P.  
 XX 02-MAR-2001; 2001US-0273037P.  
 XX (BRIM ) BRISTOL-MYERS SQUIBB CO.  
 PA (TSUC/) TSUCHIHASHI Z.  
 PA (HUII/) HUI L.  
 XX Tsuchihashi Z, Hui L, Zerba KE, Ma-Edmonds M, Perrone MH;  
 PI Swanson BN, Powell JR;  
 PI WPI; 2002-619265/66.  
 DR  
 XX New isolated nucleic acid with at least one polymorphic position, useful  
 PT for detecting, diagnosing and treating disorders such as angioedema,  
 PT cancer, viral, bacterial or fungal infection, cardiovascular and  
 PT autoimmune diseases.  
 XX  
 PS Disclosure; Page 721; 977pp; English.

XX The invention relates to an isolated nucleic acid from a human gene  
 CC encoding aminopeptidase P (XPNEP2), bradykinin receptor B1 (BDKRB1),  
 CC tachykinin receptor B1 (TACR1), C1 esterase inhibitor (C1NH), kallikrein  
 CC 1 (KLK1), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme  
 CC 2 (ACE2) or protease inhibitor 4 (PI4), comprising at least one  
 CC polymorphic position. Also included are (1) a probe that hybridises to a  
 CC polymorphic position as provided in the detailed summary of single  
 CC nucleotide polymorphisms comprising additional 5' and 3' flanking genomic

CC sequence; (2) analysing (M1) at least one nucleic acid sample comprising  
 CC obtaining the sample from one or more individuals and determining the  
 CC nucleic acid sequence at one or more polymorphic positions in a gene  
 CC encoding a protein selected from the group above; (3) constructing (M2)  
 CC haplotypes using the genes comprising grouping at least two nucleic acids  
 CC ; (4) identifying (M3) an individual at risk of developing a disorder  
 CC upon administration of an ACE inhibitor and/or vasopeptidase inhibitor  
 CC using the polymorphic data; (5) a library of nucleic acids, each of which  
 CC comprises one or more polymorphic positions within a gene encoding a  
 CC human protein selected from the group above; and (6) genotyping (M4) an  
 CC individual comprising obtaining a nucleic acid sample, determining the  
 CC nucleotide present in at least one polymorphic position, and comparing at  
 CC least one position with a known data set. The genes, (M1, M2, M3 and M4)  
 CC and compositions are useful for detecting, diagnosing, treating,  
 CC preventing various disorders such as angioedema and diseases which  
 CC involve angiogenesis like haemangiomas, tumours, sarcomas, Crohn's  
 CC disease, trachomas, and cardiovascular diseases like angina pectoris,  
 CC hypertension, heart failure, myocardial infarction, ventricular  
 CC hypertrophy, vascular diseases, aneurysm, embolism, thrombosis, coronary  
 CC artery disease, arteriosclerosis and/or atherosclerosis, and  
 CC hypersensitivity reactions, sepsis, autoimmune diseases, inflammatory  
 CC arthritis, cancer, wounds, viral, bacterial or fungal infection, Chronic  
 CC obstructive pulmonary disease (COPD) and enterocolitis (many other  
 CC diseases and disorders are listed in the specification). The  
 CC polynucleotides are also useful for chromosome identification. Antibodies  
 CC against the proteins may be utilised for immunophenotyping of cell lines  
 CC and biological samples. The present sequence is included in the sequence  
 CC listing but is not referred to anywhere else in the specification  
 XX  
 SQ Sequence 21 BP; 5 A; 4 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1537 AAGGAGGCCAGCCTTCGGT 1555  
 ||||| ||||| ||||| |||||  
 Db 2 AAGGTGGACAGTCTTCGGT 20

RESULT 1195  
 ABS60767/c  
 ID ABS60767 standard; DNA; 21 BP.  
 XX  
 AC ABS60767;  
 XX  
 DT 05-NOV-2002 (first entry)  
 XX Human polymorphism associated DNA sequence #404.

XX Amino peptidase P; XPNEP2; bradykinin receptor B1; ds; BDKRB1;  
 KW tachykinin receptor B1; TACR1; C1 esterase inhibitor; C1NH; kallikrein 1;  
 KW KLK1; bradykinin receptor B2; BDKRB2; gene therapy;  
 KW angiotensin converting enzyme 2; ACE2; protease inhibitor 4; PI4;  
 KW polymorphism; haemangioma; tumour; sarcoma; Crohn's disease; trachoma;  
 KW cardiovascular disease; angina pectoris; hypertension; heart failure;  
 KW myocardial infarction; ventricular hypertrophy; vascular disease;  
 KW aneurysm; embolism; thrombosis; coronary artery disease; angioedema;  
 KW arteriosclerosis; atherosclerosis; hypersensitivity; sepsis;  
 KW autoimmune disease; inflammatory arthritis; cancer; wound;  
 KW viral infection; bacterial infection; fungal infection; COPD;  
 KW Chronic obstructive pulmonary disease; enterocolitis.

XX Homo sapiens.  
 OS  
 XX WO200261131-A2.  
 XX 08-AUG-2002.  
 XX 03-DEC-2001; 2001WO-US047235.  
 XX 04-DEC-2000; 2000US-0251015P.  
 XX 23-JAN-2001; 2001US-0263678P.



```
PR 02-MAR-2001; 2001US-0273037P.
XX (BRIM ) BRISTOL-MYERS SQUIBB CO.
PA (TSUC/) TSUCHIHASHI Z.
PA (HULL/) HUI L.
XX Tsuchihashi Z, Hui L, Zerba KE, Ma-Edmonds M, Perrone MH;
PI Swanson BN, Powell JR;
XX WPI; 2002-619265/66.
XX
XX New isolated nucleic acid with at least one polymorphic position, useful
PT for detecting, diagnosing and treating disorders such as angioedema,
PT cancer, viral, bacterial or fungal infection, cardiovascular and
PT autoimmune diseases.
XX
XX Disclosure; Page 876; 977pp; English.
XX
XX The invention relates to an isolated nucleic acid from a human gene
CC encoding aminopeptidase P (XPNEP2), bradykinin receptor B1 (BDKRB1),
CC tachykinin receptor B1 (TACR1), C1 esterase inhibitor (C1NH), kallikrein
CC 1 (KLK1), bradykinin receptor B2 (BDKRB2), angiotensin converting enzyme
CC 2 (ACE2) or protease inhibitor 4 (PI4), comprising at least one
CC polymorphic position. Also included are (1) a probe that hybridises to a
CC polynucleotide polymorphism as provided in the detailed summary of single
CC nucleotide polymorphisms comprising additional 5' and 3' flanking genomic
CC sequence; (2) analysing (M1) at least one nucleic acid sample comprising
CC obtaining the sample from one or more individuals and determining the
CC nucleic acid sequence at one or more polymorphic positions in a gene
CC encoding a protein selected from the group above; (3) constructing (M2)
CC haplotypes using the genes comprising grouping at least two nucleic acids
CC ; (4) identifying (M3) an individual at risk of developing a disorder
CC upon administration of an ACE inhibitor and/or vasopeptidase inhibitor
CC using the polymorphic data; (5) a library of nucleic acids, each of which
CC comprises one or more polymorphic positions within a gene encoding a
CC human protein selected from the group above; and (6) genotyping (M4) an
CC individual comprising obtaining a nucleic acid sample, determining the
CC nucleotide present in at least one polymorphic position, and comparing at
CC least one position with a known data set. The genes, (M1, M2, M3 and M4)
CC and compositions are useful for detecting, diagnosing, treating,
CC preventing various disorders such as angioedema and diseases which
CC involve angiogenesis like haemangiomas, tumours, sarcomas, Crohn's
CC disease, trachomas, and cardiovascular diseases like angina pectoris,
CC hypertension, heart failure, myocardial infarction, ventricular
CC hypertrophy, vascular diseases, aneurysm, embolism, thrombosis, coronary
CC artery disease, arteriosclerosis and/or atherosclerosis, and
CC hypersensitivity reactions, sepsis, autoimmune diseases, inflammatory
CC arthritis, cancer, wounds, viral, bacterial or fungal infection, Chronic
CC obstructive pulmonary disease (COPD) and enterocolitis (many other
CC diseases and disorders are listed in the specification). The
CC polynucleotides are also useful for chromosome identification. Antibodies
CC against the proteins may be utilised for immunophenotyping of cell lines
CC and biological samples. The present sequence is included in the sequence
CC listing but is not referred to anywhere else in the specification
XX
XX Sequence 21 BP; 7 A; 5 C; 5 G; 4 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1246 TTCGCTATCTTAGGAACCC 1264
Db 21 TTCAGTGTCTTTGGAACCC 3
RESULT 1196
ABQ61245
ID ABQ61245 standard; DNA; 21 BP.
XX
XX ABQ61245;
AC
XX
XX 03-OCT-2002 (first entry)
DT
```

```
XX Human aquaporin 5 (AQP5) gene PCR primer 3.
XX
XX Human; ss; PCR; primer; aquaporin; AQP5; AQP; water channel protein;
KW oligonucleotide chip; OGN chip; cDNA chip; lung cancer;
KW mutation detection; polymorphism detection; gene expression.
XX
XX Homo sapiens.
XX
XX WO200220787-A1.
XX
XX 14-MAR-2002.
XX
XX 10-SEP-2001; 2001WO-KR001528.
XX
XX 09-SEP-2000; 2000KR-00053821.
XX
XX (GOOD-) GOODGENE INC.
XX (MOON/) MOON W.
XX (MOON/) MOON C.
XX
XX Moon W, Moon C, Moon Y, Kim B, Kim D, Shin C, Um T, Kim H;
PI Song M, Kim H, Song S;
XX WPI; 2002-393847/42.
XX
XX Novel aquaporin 5 gene mutant useful for diagnosing lung, stomach, colon,
PT prostate, or head or neck cancer.
XX
XX Example 2; Page 148; 154pp; English.
XX
XX The invention comprises a mutant form of the human aquaporin 5 (AQP5)
CC gene. Aquaporin (AQP) is a family of water channel proteins, through
CC which water is transported into and out of cells - ten types of mammalian
CC AQP have been identified so far. The invention also comprises an
CC oligonucleotide (OGN) chip having 902 oligonucleotide primer sequences
CC and a cDNA chip comprising one or more sequences from the human AQP5
CC gene. The mutant AQP5 gene is useful for diagnosing cancer (i.e lung
CC cancer). The OGN chip is useful for detecting mutations and polymorphisms
CC in AQP5 and the cDNA chip is useful for analysis of gene expression. The
CC present DNA sequence represents a human aquaporin (AQP) gene PCR primer
XX
XX Sequence 21 BP; 3 A; 6 C; 7 G; 5 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
Qy 1036 TTTCGCTGTGGCCGAGCCA 1054
Db 3 TTTCGCTGTGGCCATAGGCA 21
RESULT 1197
ABQ61241
ID ABQ61241 standard; DNA; 21 BP.
XX
XX ABQ61241;
AC
XX
XX 03-OCT-2002 (first entry)
DT
XX Human aquaporin 5 (AQP5) gene PCR primer 1.
XX
XX Human; ss; PCR; primer; aquaporin; AQP5; AQP; water channel protein;
KW oligonucleotide chip; OGN chip; cDNA chip; lung cancer;
KW mutation detection; polymorphism detection; gene expression.
XX
XX Homo sapiens.
XX
XX WO200220787-A1.
XX
XX 14-MAR-2002.
XX
```

```

PF 10-SEP-2001; 2001WO-KR001528.
XX
PR 09-SEP-2000; 2000KR-00053821.
XX
XX (GOOD-) GOODGENE INC.
PA (MOON/) MOON W.
PA (MOON/) MOON C.
XX
PI Moon W, Moon C, Moon Y, Kim B, Kim D, Shin C, Um T, Kim H;
PI Song M, Kim H, Song S;
XX
XX WPI; 2002-393847/42.
XX
XX Novel aquaporin 5 gene mutant useful for diagnosing lung, stomach, colon,
PT prostate, or head or neck cancer.
XX
XX Example 1; Page 146; 154pp; English.
XX
XX The invention comprises a mutant form of the human aquaporin 5 (AQP5)
CC gene. Aquaporin (AQP) is a family of water channel proteins, through
CC which water is transported into and out of cells - ten types of mammalian
CC AQP have been identified so far. The invention also comprises an
CC oligonucleotide (OGN) chip having 902 oligonucleotide primer sequences
CC and a cDNA chip comprising one or more sequences from the human AQP5
CC gene. The mutant AQP5 gene is useful for diagnosing cancer (i.e lung
CC cancer). The OGN chip is useful for detecting mutations and polymorphisms
CC in AQP5 and the cDNA chip is useful for analysis of gene expression. The
CC present DNA sequence represents a human aquaporin (AQP) gene PCR primer
XX
XX Sequence 21 BP; 3 A; 6 C; 7 G; 5 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1036 TTGGCTGGCCCGAGCCA 1054
DB 3 TTGGCTGGCCCATAGGCA 21
|||||||
RESULT 1198
ABL43257
ID ABL43257 standard; DNA; 21 BP.
XX
XX ABL43257;
XX
XX 11-APR-2002 (first entry)
DT
XX
XX Human chromosome 1p36-35 PCR primer SEQ ID NO:301.
DE
XX Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;
KW PCR primer; ss.
XX
XX Homo sapiens.
OS
XX
XX JP2001321190-A.
PN
XX
XX 20-NOV-2001.
PD
XX
XX 12-MAR-2001; 2001JP-00068285.
PF
XX
XX 10-MAR-2000; 2000JP-00066716.
PR
XX
XX (RIKA ) RIKAGAKU KENKYUSHO.
PA
XX (GENO-) GENOTEX YG.
PA
XX
XX WPI; 2002-144136/19.
DR
XX
XX Arraying genome clones.
XX
XX Claim 4; Page 10; 528pp; Japanese.
XX
XX The present invention describes a method of arraying genome clones. The
CC method comprises: (a) clones of the genomic libraries contained in
CC multiwell plates numbered for discrimination are mixed in each of the
CC multiwell plates; (b) a primer designed based on the chromosome marker
CC sequence is added to the mixture to carry out an amplification reaction;
CC (c) a signal corresponding to the marker is detected from the resultant
CC amplified product to specify the discrimination Nos. of the multiwell
CC plates containing the clones having said marker sequence; (d) the order
CC of the markers is changed so that the same discrimination Nos. succeed to
CC the maximum in the specified discrimination Nos. to array the multiwell
CC plates; (e) the clones in the multiwell plates of the specified
CC discrimination Nos. are mixed respectively in each wells of longitudinal
CC and lateral directions; (f) the mixed clones are cultured and the
CC resultant cultures are amplified by using the above primer; (g) signals

```

are detected from the amplified products; (h) the clones in the multiwell plates are specified from the detected result; and (i) the clones are reconstituted as the positions on the chromosome and arrayed. The microarray is useful for gene analysis. ABL42957 to ABL45322 represent PCR primers for human chromosome 1p36-35 DNA, and ABL45323 to ABL45634 represent PCR primers for human chromosome 21q22.1, which are specifically claimed for use in the present invention

Sequence 21 BP; 7 A; 5 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;

Best Local Similarity 84.2%; Pred. No. 9.1e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

597 CTTTGGGAACTGGGAGCC 615

|||||

3 CATTGAGAACTGGGAGCC 21

RESULT 1200

ABN88844

ID ABN88844 standard; RNA; 21 BP.

AC ABN88844;

DT 21-AUG-2002 (first entry)

DE Rat metallothionein MT-II target sequence SEQ ID NO:47.

XX Apoptosis-inducing ribozyme; hammerhead ribozyme; ribozyme; MT;

KW metallothionein; cancer; tumour; ss.

OS Rattus sp.

FN WO2000236740-A2.

PD 10-MAY-2002.

PF 31-OCT-2001; 2001WO-US046062.

XX 31-OCT-2000; 2000US-0244709P.

PA (UYMA-) UNIV MASSACHUSETTS MEDICAL CENT.

PI Lee K, Lau K, Ho S;

DR WPI; 2002-479757/51.

New ribozymes directed against metallothionein mRNAs, useful for inducing apoptosis in human cancer cells, for inhibiting tumor growth and for enhancing the effectiveness of chemotherapy or radiation therapy against cancer cells.

Example 2; Fig 2B; 63pp; English.

The present invention describes a ribozyme comprising Hu MT-Ia Rz, Hu MT-Ie/Rz, Hu MT-If Rz, Hu MT-Ib Rz, Hu MT-Ighlx/-II Rz, Rz1-2, or Rz4-9 (see ABN88812 to ABN88818). The ribozymes have cytostatic activity. The ribozymes are targeted to metallothionein (MT) and so are metallothionein inhibitors and apoptosis inducers. The ribozymes are useful for inducing apoptosis in human cancer cells, for inhibiting tumour growth, and for enhancing the effectiveness of chemotherapy or radiation therapy against cancer cells. The ribozyme-based methods for treating cancer, from the present invention, offer the following advantages over conventional antisense-based methods of limiting metallothionein production in target cells: (1) ribozymes destroy metallothionein-encoding mRNAs rather than merely hybridising them; (2) ribozymes act like enzymes and each molecule can be recycled to degrade multiple mRNA molecules; (3) a ribozyme need not have perfect complementarity with a target mRNA to destroy the RNA; and (4) a single ribozyme can be designed to destroy several related mRNAs that encode different metallothioneins more readily than a conventional antisense molecule can be designed to be effective against various mRNAs. ABN88819 to ABN88870 represent sequences used in the

exemplification of the present invention

Sequence 21 BP; 6 A; 4 C; 8 G; 0 T; 3 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;

Best Local Similarity 68.4%; Pred. No. 9.1e+02;

Matches 13; Conservative 3; Mismatches 3; Indels 0; Gaps 0;

1167 GGGCTGCATCTTCTATGAG 1185

|||||

2 GGGCTGCAUCUGCAAGAG 20

RESULT 1201

ABS97586/C

ID ABS97586 standard; DNA; 21 BP.

AC ABS97586;

DT 23-DEC-2002 (first entry)

DE Human epoxide hydrolase 2 polymorphic sequence #77.

XX Human; ds; cytochrome P450 A1; CYP4501A1; UGT2B4; MDRL; cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF; adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR112; aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS; cyclooxygenase 2; COX2; diazepam binding inhibitor; DBI; haematological; epoxide hydrolase 2; EPHX2; 5-lipoxygenase activating protein; FLAP; glutathione-S-transferase 12; GST12; histamine-N-methyl transferase; HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT; NADPH quinone oxidoreductase 2; NQO2; sulfoltransferase thermolabile; STM; UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7; UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; UPA; multidrug resistance 1; lactotransferrin; orphan nuclear receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5; altered drug metabolism; cardiovascular function; colorectal tumour; central nervous system; pulmonary; immunological; SNP; single nucleotide polymorphism.

OS Homo sapiens.

FN WO2000257410-A2.

PD 25-JUL-2002.

PF 28-NOV-2001; 2001WO-US044838.

XX 28-NOV-2000; 2000US-00724389.

PA (DNAS-) DNA SCI LAB INC.

PI Guida M, Hall J;

DR WPI; 2002-698522/75.

Isolated nucleic acid molecules having polymorphisms in known human genes e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers for locating, identifying and characterizing the genes responsible for disorder-related traits.

Example 10; Page 119; 714pp; English.

This invention relates to the sequence of an isolated nucleic acid molecule comprising at least one base variation from that of a known human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2), cytochrome P450 02E1 (CYP45002E1), adrenergic receptor beta1 (ADRB1), aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator (ARNT), cathepsin S (CTSS), cyclooxygenase 2 (COX2), diazepam binding inhibitor (DBI), epoxide hydrolase 2 (EPHX2), 5-lipoxygenase activating protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl transferase (HNMT), (kallikrein 2) KLK2, nicotinamide -N-methyl

transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),  
 CC sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4  
 CC (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl  
 CC transferase (UGT2B15), urokinase receptor (uPA), multidrug resistance 1  
 CC (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3  
 CC (MRP3), orphan nuclear receptor (NR1I2), or acetylcholine muscarinic  
 CC receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.  
 CC The polymorphisms in the human genes cited in the invention are useful as  
 CC genetic linkage markers for locating and characterizing the genes that  
 CC are responsible for specific traits within the genome and eventually  
 CC identifying the genes responsible for a variety of disorder-related  
 CC expression, mutation or underexpression, which may be used in diagnosing  
 CC and/or treating the disorders. The nucleic acid molecules comprising the  
 CC polymorphic sequences contained in CYP4501A1, CYP4501A2, CYP4502E1,  
 CC ARNT, EPHX2, GSTI2, NNMT, NQO2, NR1I2, STM, UGT2B4, UGT2B7, UGT2B15, AHR,  
 CC MDR1 and/or MDR3 are useful for screening individuals for altered drug  
 CC metabolism. The polymorphic sequences contained in CYP4501A1, CYP4501A2,  
 CC AHR, MDR1 and/or MDR3 may also be used to screen individuals for  
 CC susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are  
 CC used to screen for altered cardiovascular function, in COX2 for altered  
 CC susceptibility to colorectal tumours, in DBI or CHMR1 for altered central  
 CC nervous system function, in FLAP and NNMT for altered pulmonary,  
 CC immunological or haematological function, in KLK2 for altered serine  
 CC protease activity in the prostate, in LTF for altered immunological or  
 CC haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and  
 CC peripheral nervous system function. The present sequence represents a  
 CC polymorphic DNA sequence of the invention  
 XX  
 SQ Sequence 21 BP; 3 A; 9 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1644 GTCTGGAGGATGCCACACC 1662

DB 21 GTTGAAGGATGCCACACC 3

RESULT 1202

ABS97587/c

ID ABS97587 standard; DNA; 21 BP.

AC ABS97587;

XX 23-DEC-2002 (first entry)

DE Human epoxide hydrolase 2 polymorphic sequence #78.

XX Human; ds; cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1;  
 KW cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;  
 KW adrenergic receptor beta1; ADRB1; aryl hydrocarbon; AHR; MRP3; NR1I2;  
 KW aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;  
 KW cyclooxigenase 2; COX2; diazepam binding inhibitor; DBI; haematological;  
 KW epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;  
 KW glutathione-S-transferase 12; GSTI2; histamine-N-methyl transferase;  
 KW NNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;  
 KW NADPH quinone oxidoreductase 2; NQO2; sulfotransferase thermolabile; STM;  
 KW UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;  
 KW UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;  
 KW multidrug resistance 1; lactotransferrin; orphan nuclear receptor;  
 KW multidrug resistance associated protein 3; cancer; prostate;  
 KW acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;  
 KW altered drug metabolism; cardiovascular function; colorectal tumour;  
 KW central nervous system; pulmonary; immunological; SNP;  
 KW single nucleotide polymorphism.

XX Homo sapiens.

XX WO200257410-A2.

XX 25-JUL-2002.

XX 28-NOV-2001; 2001WO-US044838.  
 XX PF  
 XX PR 28-NOV-2000; 2000US-00724389.  
 XX PA (DNAS-) DNA SCI LAB INC.  
 XX PI Guida M, Hall J;  
 XX WPI; 2002-698522/75.

XX Isolated nucleic acid molecules having polymorphisms in known human genes  
 PT e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers  
 PT for locating, identifying and characterizing the genes responsible for  
 PT disorder-related traits.

XX Example 10; Page 119; 714pp; English.

XX This invention relates to the sequence of an isolated nucleic acid  
 CC molecule comprising at least one base variation from that of a known  
 CC human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2),  
 CC cytochrome P450 02E1 (CYP45002E1), adrenergic receptor beta1 (ADRB1),  
 CC aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator  
 CC (ARNT), cathepsin S (CTSS), cyclooxigenase 2 (COX2), diazepam binding  
 CC inhibitor (DBI), epoxide hydroxylase 2 (EPHX2), 5-lipoxygenase activating  
 CC protein (FLAP), glutathione-S-transferase 12 (GSTI2), histamine-N-methyl  
 CC transferase (NNMT), kallikrein 2 (KLK2), nicotinamide-N-methyl  
 CC transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),  
 CC sulfotransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4  
 CC (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl  
 CC transferase (UGT2B15), urokinase receptor (uPA), multidrug resistance 1  
 CC (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3  
 CC (MRP3), orphan nuclear receptor (NR1I2), or acetylcholine muscarinic  
 CC receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.  
 CC The polymorphisms in the human genes cited in the invention are useful as  
 CC genetic linkage markers for locating and characterizing the genes that  
 CC are responsible for specific traits within the genome and eventually  
 CC identifying the genes responsible for a variety of disorder-related  
 CC traits as a result of their e.g., overexpression, constitutive  
 CC expression, mutation or underexpression, which may be used in diagnosing  
 CC and/or treating the disorders. The nucleic acid molecules comprising the  
 CC polymorphic sequences contained in CYP4501A1, CYP4501A2, CYP4502E1,  
 CC ARNT, EPHX2, GSTI2, NNMT, NQO2, NR1I2, STM, UGT2B4, UGT2B7, UGT2B15, AHR,  
 CC MDR1 and/or MDR3 are useful for screening individuals for altered drug  
 CC metabolism. The polymorphic sequences contained in CYP4501A1, CYP4501A2,  
 CC AHR, MDR1 and/or MDR3 may also be used to screen individuals for  
 CC susceptibility to cancer. Polymorphic sequences in ADRB1 or CHMR2 are  
 CC used to screen for altered cardiovascular function, in COX2 for altered  
 CC susceptibility to colorectal tumours, in DBI or CHMR1 for altered central  
 CC nervous system function, in FLAP and NNMT for altered pulmonary,  
 CC immunological or haematological function, in KLK2 for altered serine  
 CC protease activity in the prostate, in LTF for altered immunological or  
 CC haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and  
 CC peripheral nervous system function. The present sequence represents a  
 CC polymorphic DNA sequence of the invention

XX Sequence 21 BP; 3 A; 9 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;

Best Local Similarity 84.2%; Pred. No. 9.1e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1644 GTCTGGAGGATGCCACACC 1662

DB 21 GTTGAAGGATGCCACACC 3

RESULT 1203

ABK16378

ID ABK16378 standard; DNA; 21 BP.

XX ABK16378;

XX ABK16378;

DT 14-MAR-2002 (first entry)  
XX Human adipose protein, adp, PCR primer #8.  
XX  
XX  
KW Adipose protein; ss; adp; obesity; transgenic animal; obesity;  
KW adipositas; bulimia; wasting; cachexia; eating disorder;  
KW body weight disorder; weight loss; cancer; infectious disease;  
KW hypogonadism; Prader-Willi syndrome; Laurence-Moon-Biedl syndrome;  
KW hypothyroidism; diabetes; Cushing's syndrome; endocrine disorder;  
KW gastrointestinal diseases; inflammatory bowel disease; PCR primer;  
KW ulcerative colitis; anorexia nervosa; glycogen storage disease;  
KW lipid storage disease; lipoma; liposarcoma; heart disease; hypertension;  
KW infertility; acquired immunodeficiency syndrome; AIDS.  
XX  
OS Homo sapiens.  
XX  
XX WO200196371-A2.  
XX  
XX 20-DEC-2001.  
XX  
XX 13-JUN-2001; 2001WO-EP006713.  
XX  
XX 16-JUN-2000; 2000US-0211914P.  
XX 23-JUN-2000; 2000EP-00113049.  
XX 28-JUN-2000; 2000US-0214518P.  
XX 17-APR-2001; 2001EP-00109537.  
XX  
XX (DEVE-) DEVELOGEN AG.  
XX  
XX Broenner G, Ciossek T, Dohrmann C, Haeder T, Rothe M;  
XX WPI; 2002-106464/14.  
XX  
XX Novel nucleic acid encoding adipose polypeptide which regulates, causes  
XX or contributes to obesity, useful for treating obesity, heart disease,  
XX hypertension, infertility, and controlling weight loss in cancer  
XX patients.  
XX  
XX Claim 1; Page 171; 188pp; English.  
XX  
XX The invention relates to a nucleic acid encoding a adipose (ADP)  
XX polypeptide which regulates, causes or contributes to obesity in an  
XX animal or a human. The polynucleotides, proteins, ant-adp antibodies,  
XX modulators of adp activity, adp antisense nucleic acids, expression  
XX vectors, adp transgenic animals are useful in the diagnosis and treatment  
XX of obesity, adipositas, bulimia, wasting (cachexia), eating disorders  
XX and/or disorders of body weight/body mass, weight loss due to cancer or  
XX infectious diseases, genetic disorders associated with hypogonadism e.g.  
XX Prader-Willi syndrome, Laurence-Moon-Biedl syndrome, hypothyroidism,  
XX diabetes, Cushing's syndrome, endocrine disorders, gastrointestinal  
XX diseases, inflammatory bowel disease, ulcerative colitis, and anorexia  
XX nervosa. They are also useful for treating disorders of body weight/mass  
XX e.g. glycogen storage diseases, and lipid storage diseases and for  
XX treating lipomas, and/or liposarcomas. The compositions are also useful  
XX for treating heart disease, hypertension, and infertility and for  
XX treating conditions associated with under weight e.g. enhancing or  
XX controlling fertility, controlling weight loss in acquired  
XX immunodeficiency syndrome (AIDS) or cancer patients. The present sequence  
XX is a PCR primer used to amplify an adp nucleic acid  
XX  
SQ Sequence 21 BP; 4 A; 8 C; 5 G; 4 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 1029 GGCTGACTTTGGCCTGGCC 1047  
Db 3 GGCACACTTTCGCTGGCC 21  
RESULT 1204  
ABK16377/c

ID ABK16377 standard; DNA; 21 BP.  
XX  
XX AC ABK16377;  
XX  
XX DT 14-MAR-2002 (first entry)  
XX  
XX DE Human adipose protein, adp, PCR primer #7.  
XX  
XX KW Adipose protein; ss; adp; obesity; transgenic animal; obesity;  
KW adipositas; bulimia; wasting; cachexia; eating disorder;  
KW body weight disorder; weight loss; cancer; infectious disease;  
KW hypogonadism; Prader-Willi syndrome; Laurence-Moon-Biedl syndrome;  
KW hypothyroidism; diabetes; Cushing's syndrome; endocrine disorder;  
KW gastrointestinal diseases; inflammatory bowel disease; PCR primer;  
KW ulcerative colitis; anorexia nervosa; glycogen storage disease;  
KW lipid storage disease; lipoma; liposarcoma; heart disease; hypertension;  
KW infertility; acquired immunodeficiency syndrome; AIDS.  
XX  
OS Homo sapiens.  
XX  
XX WO200196371-A2.  
XX  
XX PD 20-DEC-2001.  
XX  
XX PF 13-JUN-2001; 2001WO-EP006713.  
XX  
XX PR 16-JUN-2000; 2000US-0211914P.  
XX 23-JUN-2000; 2000EP-00113049.  
XX 28-JUN-2000; 2000US-0214518P.  
XX 17-APR-2001; 2001EP-00109537.  
XX  
XX PA (DEVE-) DEVELOGEN AG.  
XX  
XX FI Broenner G, Ciossek T, Dohrmann C, Haeder T, Rothe M;  
XX WPI; 2002-106464/14.  
XX  
XX PT Novel nucleic acid encoding adipose polypeptide which regulates, causes  
XX or contributes to obesity, useful for treating obesity, heart disease,  
XX hypertension, infertility, and controlling weight loss in cancer  
XX patients.  
XX  
XX Claim 1; Page 171; 188pp; English.  
XX  
XX The invention relates to a nucleic acid encoding a adipose (ADP)  
XX polypeptide which regulates, causes or contributes to obesity in an  
XX animal or a human. The polynucleotides, proteins, ant-adp antibodies,  
XX modulators of adp activity, adp antisense nucleic acids, expression  
XX vectors, adp transgenic animals are useful in the diagnosis and treatment  
XX of obesity, adipositas, bulimia, wasting (cachexia), eating disorders  
XX and/or disorders of body weight/body mass, weight loss due to cancer or  
XX infectious diseases, genetic disorders associated with hypogonadism e.g.  
XX Prader-Willi syndrome, Laurence-Moon-Biedl syndrome, hypothyroidism,  
XX diabetes, Cushing's syndrome, endocrine disorders, gastrointestinal  
XX diseases, inflammatory bowel disease, ulcerative colitis, and anorexia  
XX nervosa. They are also useful for treating disorders of body weight/mass  
XX e.g. glycogen storage diseases, and lipid storage diseases and for  
XX treating lipomas, and/or liposarcomas. The compositions are also useful  
XX for treating heart disease, hypertension, and infertility and for  
XX treating conditions associated with under weight e.g. enhancing or  
XX controlling fertility, controlling weight loss in acquired  
XX immunodeficiency syndrome (AIDS) or cancer patients. The present sequence  
XX is a PCR primer used to amplify an adp nucleic acid  
XX  
SQ Sequence 21 BP; 4 A; 5 C; 8 G; 4 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 1029 GGCTGACTTTGGCCTGGCC 1047  
Db 19 GGCACACTTTCGCTGGCC 1

## RESULT 1205

ABL61474  
 ID ABL61474 standard; DNA; 21 BP.  
 AC ABL61474;  
 XX  
 DT 17-SEP-2002 (first entry)  
 XX  
 DE Human UGT1A7 codon 11 polymorphism associated primer A.  
 XX  
 KW UGT1A7; uridine diphosphate-5'-glucuronosyl transferase; UGP; primer;  
 KW carcinoma; inflammatory bowel disease; genetic predisposition; colon;  
 KW polymorphism; UGT1A7\*2; UGT1A7\*3; UGT1A7\*4; antitumour; cytostatic;  
 KW antinflammatory; gene therapy; diagnosis; pancreas; liver; stomach;  
 KW oesophagus; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253770-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 03-JAN-2002; 2002WO-DE000003.  
 XX  
 PR 05-JAN-2001; 2001DE-01000238.  
 XX  
 PA (MEDI-) MEDIZINISCHE HOCHSCHULE HANNOVER.  
 XX  
 PI Manns M., Strassburg C;  
 XX  
 WPI; 2002-509023/54.  
 DR  
 PT Diagnosing, and predicting risk, of carcinoma and inflammatory bowel  
 PT disease, comprises detecting polymorphisms in the gene for uridine  
 PT diphosphate-5'-glucuronosyl transferase.  
 XX  
 PS Example 1; Page 12; 26pp; German.  
 XX

CC This invention describes a novel method of predicting the risk, and/or  
 CC for diagnosis, of carcinoma and inflammatory bowel disease (IBD)  
 CC associated with a genetic predisposition. The method comprises testing a  
 CC subject's DNA for the presence of a polymorphic UGT1A7 allele (UGT =  
 CC uridine diphosphate-5'-glucuronosyl transferase) that contains mutations  
 CC in codons 11, 129, 131 and/or 208. Polymorphic UGT1A7\*2, UGT1A7\*3 or  
 CC UGT1A7\*4 genes are used for preparing the corresponding UGT isoforms for  
 CC metabolic characterisation of antitumour therapeutics and for examining  
 CC toxicity/carcinogenicity of potential UGT1A7 substrates. The products of  
 CC the invention have cytostatic and antinflammatory activity and are  
 CC appropriate for gene therapy. The method of the invention is used for  
 CC diagnosis, or assessing risk, of carcinoma, especially of the colon,  
 CC pancreas, liver, stomach or oesophagus, and IBD. The method allows early  
 CC identification of subjects at risk. This sequence represents a primer  
 CC used in the identification of the UGT1A7 polymorphism at codon 11 of the  
 CC wild-type UGT1A7 gene  
 XX

SQ Sequence 21 BP; 2 A; 7 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 938 GTGGCTGGCCTACTGCCA 956  
 |||||  
 Db 3 GTGGACTGGCCTCTTCCA 21

## RESULT 1206

ABX04548/c  
 ID ABX04548 standard; DNA; 21 BP.  
 XX  
 AC ABX04548;

XX

DT 13-JAN-2003 (first entry)

XX

DE Mouse adipose complement related protein zsig37 primer ZC186687.

XX

KW Mouse; ss; primer; adipocyte complement related protein; zsig37;  
 KW chromosome 17q25.2; blood flow; vulnery; antibacterial; vasotropic;  
 KW anticoagulant; immunosuppressive; damaged collagenous tissue;  
 KW complement activation; thrombosis; trauma; ischaemia; reperfusion;  
 KW intestinal strangulation; cardiopulmonary bypass ischaemia;  
 KW myocardial infarction; post-trauma vasospasm; stroke;  
 KW percutaneous transluminal angioplasty; endarterectomy;  
 KW accidental vascular trauma; surgical-induced vascular trauma;  
 KW haemostasis; wound healing; antimicrobial.

XX Mus musculus.

OS

XX US6448221-B1.

XX

XX 10-SEP-2002.

XX

XX 17-FEB-2000; 2000US-00506855.

XX

XX 19-FEB-1999; 99US-00253604.

XX

XX 22-NOV-1999; 99US-00444794.

XX

XX (ZYMO) ZYMOGENETICS INC.

XX

XX Sheppard PO, Lasser GW, Bishop PD;

PI

XX WPI; 2003-038245/03.

XX

XX Promoting blood flow within the vasculature of a mammal, comprises

PT

XX administering a pharmaceutical formulation comprising zsig37 proteins.

XX

XX Example 9; Col 53; 39pp; English.

XX

CC The invention relates to promoting blood flow within the vasculature of a  
 CC mammal, comprises administering to the mammal an amount of a  
 CC pharmaceutical formulation that comprises an adipocyte complement related  
 CC protein, zsig37, having residues 26-281 of a sequence appearing as  
 CC ABG99070. Also included is a method of pacifying damaged collagenous  
 CC tissues within a mammal, comprising administering to the mammal an amount  
 CC of the pharmaceutical formulation cited above, which achieves  
 CC pacification of the damaged collagenous tissues by inhibiting complement  
 CC activation or by reducing thrombosis formation. The method is useful in  
 CC promoting blood flow within the vasculature of a mammal by reducing  
 CC thrombogenic and complement activity, and in pacifying damaged  
 CC collagenous surfaces (e.g. in trauma, ischaemia, reperfusion, intestinal  
 CC strangulation, cardiopulmonary bypass ischaemia, myocardial infarction,  
 CC post-trauma vasospasm, stroke, percutaneous transluminal angioplasty,  
 CC endarterectomy, accidental vascular trauma or surgical-induced vascular  
 CC trauma). The zsig37 polypeptide, polynucleotide, and an anti-zsig37  
 CC antibody are useful as inhibitors of haemostasis and immune function, in  
 CC modulating wound healing, and for antimicrobial applications. The human  
 CC gene for zsig37 is located on chromosome 17q25.2. The present sequence is  
 CC a primer used to sequence cDNA encoding mouse zsig37  
 XX

SQ Sequence 21 BP; 5 A; 4 C; 8 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
 Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 822 GAAGTCCCTCACCTTGTC 840  
 |||||  
 Db 21 GAAGTCCCTCTCACCTGTC 3

## RESULT 1207

ACD26013/c  
 ID ACD26013 standard; DNA; 21 BP.  
 XX





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PR 19-FEB-1999; 99US-00253604.
PR 22-NOV-1999; 99US-00444794.
PR 17-FEB-2000; 2000US-00506855.
XX (ZYMO ) ZYMOGENETICS INC.
PA Sheppard PO, Lasser GW, Bishop PD;
XX WPI; 2003-707011/67.
XX Minimizing vascular occlusion or inducing vasodilation within the
PT vasculature of a mammal, by administering an adipocyte complement related
PT protein, zsig37 that promotes blood flow.
XX Example 9; SEQ ID NO 41; 44pp; English.
XX The invention relates to a method for minimising vascular occlusion or
CC inducing vasodilation within a mammal, involving administering a
CC formulation comprising an adipocyte complement related protein, zsig37.
CC The method is useful for minimising vascular occlusion and inducing
CC vasodilation in a mammal suffering from acute vascular injury which may
CC be due to vascular reconstruction, trauma, stroke or aneurysm. The
CC vascular injury is due to plaque rupture, degradation of the vasculature,
CC complications associated with diabetes and atherosclerosis.
CC Administration of the formulation promotes blood flow or elicits a
CC vasorelaxant response. This sequence represents a primer used to sequence
CC cDNA encoding the human zsig37 polypeptide of the invention.
XX
SQ Sequence 21 BP; 5 A; 4 C; 8 G; 4 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 822 GAAGTCCCTCACCCCTGTC 840
Db 21 GAAGTCCCTCACGTC 3
RESULT 1210
ADCL17380
ID ADCL17380 standard; DNA; 21 BP.
XX
AC ADCL17380;
XX
DT 18-DEC-2003 (first entry)
XX
DE Mouse serine protease ztrypl primer seq id 5.
XX
KW cardiant; antiinflammatory; antiasthmatic; antiarthritic;
KW antiinfertility; contraceptive; serine protease; cancer; immune disorder;
KW Ztrypl; inflammatory disorder; reproductive disorder; infertility;
KW contraceptive; testicular disorder; heart disorder; asthma; arthritis;
KW mouse; PCR; primer; ss.
XX
OS Mus sp.
XX
PN US2003119035-A1.
XX
PD 26-JUN-2003.
XX
PF 01-OCT-2002; 2002US-00261845.
XX
PR 09-AUG-2000; 2000US-00636382.
XX
PA (ZYMO ) ZYMOGENETICS INC.
XX
PI Presnell SR, Taft DW;
XX
DR WPI; 2003-645495/61.
XX
PT New ztrypl gene, useful in diagnosing diseases associated with the ztrypl
PT gene, e.g., cancer or immune disorders.

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XX
PS
XX Example 1; SEQ ID NO 5; 44pp; English.
XX The invention describes a new isolated polynucleotide encoding a serine
CC protease polypeptide comprising a sequence of amino acid residues that is
CC 90% identical to a sequence comprising: amino acid residues 44-276, 24-
CC 276, 44-314, 24-314 or 1-314 of the 314-amino acid sequence or amino acid
CC residues 43-275, 19-275, 43-312, 19-312 or 1-312 of the 312-amino acid
CC sequence; or 233 amino acids. The polynucleotide is useful in diagnosing
CC diseases associated with the ztrypl gene, e.g., cancer or immune
CC disorders. ztrypl proteins are useful for treating inflammatory,
CC reproductive (e.g. infertility and contraceptive), testicular and heart
CC disorders. They are also useful for treating asthma and arthritis. This
CC sequence represents a primer used in the isolation and analysis of mouse
CC serine protease ztrypl.
XX
SQ Sequence 21 BP; 1 A; 9 C; 4 G; 7 T; 0 U; 0 Other;
Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
QY 1195 GGCGTCCCTCTTCGG 1213
Db 2 GGCTGTCCCTCTTCCTG 20
RESULT 1211
AAD59914/C
ID AAD59914 standard; DNA; 21 BP.
XX
AC AAD59914;
XX
DT 18-DEC-2003 (first entry)
XX
DE ZC18687 oligo used to identify mouse zsig37 DNA.
XX
KW Adipocyte complement related protein; collagenous surface pacification;
KW wound healing; tumour metastasis; gene therapy; thrombogenic; mouse;
KW Acrp; zsig37; ss.
XX
OS Mus musculus.
XX
PN US2003144208-A1.
XX
PD 31-JUL-2003.
XX
PF 07-FEB-2003; 2003US-00360186.
XX
PR 19-FEB-1999; 99US-00253604.
PR 22-NOV-1999; 99US-00444794.
PR 17-FEB-2000; 2000US-00506855.
PR 19-JUL-2000; 2000US-00619740.
XX
PA (SHEP/) SHEPPARD P O.
PA (LASS/) LASSER G W.
PA (BISH/) BISHOP P D.
XX
PI Sheppard PO, Lasser GW, Bishop PD;
XX
DR WPI; 2003-755532/71.
XX
PT Promoting blood flow within the vasculature of a mammal, comprising
PT administering an adipocyte complement related protein to reduce
PT thrombogenic and complement activity within the vasculature.
XX
PS Example 9; Page 29; 48pp; English.
XX The invention relates to a method of promoting blood flow within the
CC vasculature of a mammal. The method involves administering an adipocyte
CC complement related protein (Acrp) to the mammal to reduce and complement
CC activity within the vasculature. Methods and compositions of the
CC invention are useful in promoting blood flow within the vasculature of a

```



CC mammal, in pacifying collagenous surfaces, in modulating wound healing or  
CC mediating tumour metastasis. The invention is also useful in gene  
CC therapy. The present sequence is an oligo used to identify mouse  
CC adipocyte complement related protein homologue (zsig37) DNA

XX Sequence 21 BP; 5 A; 4 C; 8 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 822 GAAGTCCCTCACCCTTGTC 840  
Db 21 GAAGTCCCTCAGTGTC 3

RESULT 1212  
ADD14411/C  
ID ADD14411 standard; DNA; 21 BP.

XX AC ADD14411;

XX DT 01-JAN-2004 (first entry)

XX DE Human src biomarker reverse PCR primer SEQ ID NO:600.

XX KW predictor set; protein tyrosine kinase activity modulator;  
KW protein tyrosine kinase pathway; protein tyrosine kinase; cytostatic;  
KW gene therapy; drug sensitivity; genetic profile; cancer; human;  
KW PCR primer; ss.

XX OS Synthetic.

XX OS Homo sapiens.

XX PN WO2003062395-A2.

XX PD 31-JUL-2003.

XX PF 17-JAN-2003; 2003WO-US001981.

XX PR 18-JAN-2002; 2002US-0350061P.

XX PA (BRIM ) BRISTOL-MYERS SQUIBB CO.

XX PI Huang F, Fairchild CR, Lee FY, Shaw P;

XX DR WPI; 2003-636735/60.

XX New polynucleotides and polypeptides for predicting the activity of  
PT compounds that interact with protein tyrosine kinases and/or protein  
PT tyrosine kinase pathways.

XX PS Example 2; SEQ ID NO 600; 139pp; English.

XX The present invention describes a predictor set comprising a plurality of  
CC polynucleotides or polypeptides whose expression pattern is predictive of  
CC the response of cells to treatment with a compound that modulates protein  
CC tyrosine kinase activity or members of the protein tyrosine kinase  
CC pathway. Also described: (1) predicting whether a compound is capable of  
CC modulating the activity of cells, comprising obtaining a sample of cells,  
CC determining whether the cells express a plurality of markers, and  
CC correlating the expression of the markers to the compound's ability to  
CC modulate the activity of the cells; (2) a plurality of cell lines for  
CC identifying polynucleotides and polypeptides whose expression levels  
CC correlate with compound sensitivity or resistance of cells associated  
CC with a disease state; and (3) identifying polynucleotides and  
CC polypeptides that predict compound sensitivity or resistance of cells  
CC associated with a disease state, comprising subjecting the plurality of  
CC cell lines to one or more compounds, analysing the expression pattern of  
CC a microarray of polynucleotides or polypeptides, and selecting  
CC polynucleotides or polypeptides that predict the sensitivity or  
CC resistance of cells associated with a disease state by using the  
CC expression pattern of the microarray. The polynucleotides and

CC polypeptides have cytostatic activities, and can be used in gene therapy.  
CC The polynucleotides and polypeptides are useful in predicting the  
CC activity of compounds that interact with protein tyrosine kinases and/or  
CC protein tyrosine kinase pathways. These may be used in determining drug  
CC sensitivity in patients to allow the development of individualized  
CC genetic profiles which aid in treating diseases and disorders (e.g.  
CC cancer) based on patient response at a molecular level. The present  
CC sequence is used in the exemplification of the present invention.

XX Sequence 21 BP; 2 A; 8 C; 3 G; 8 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 18 ATGCACAGGAATGCAGAGG 36  
Db 19 ATGCAGAGAACTGCAGAGG 1

RESULT 1213  
ADC84418/C

ID ADC84418 standard; DNA; 21 BP.

XX AC ADC84418;

XX DT 01-JAN-2004 (first entry)

XX DE HPV detection method-related oligonucleotide Gap21-3.

XX KW probe; human papilloma virus; HPV; detection; identification; ss;  
KW Gap21-3.

XX OS Unidentified.

XX PN EP1302550-A1.

XX PD 16-APR-2003.

XX PF 10-OCT-2001; 2001EP-00123379.

XX PR 10-OCT-2001; 2001EP-00123379.

XX PA (KING-) KING CAR FOOD IND CO LTD.

XX PI Lin C, Lin R, You C, Huang H, Lee B, Lee H, Lin Y, Fan C;  
PI Hsu H, Shih C, Yeh C, Kao Y, Pan C, Chan P;

XX DR WPI; 2003-432398/41.

XX Detector for identifying human papilloma virus subtypes, comprises  
PT carrier having two parts carrying first and second oligonucleotides that  
PT respectively hybridize with DNA contained in first and second subtypes of  
PT the virus.

XX PS Disclosure; SEQ ID NO 648; 221pp; English.

XX The invention comprises oligonucleotides for detecting and identifying  
CC subtypes of human papilloma virus (HPV) contained in a sample. The  
CC oligonucleotides of the invention are useful for simultaneously detecting  
CC and identifying subtypes of HPVs. The present DNA sequence represents an  
CC oligonucleotide that was used in the exemplification of the invention.

XX Sequence 21 BP; 5 A; 9 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1156 ATGTGGGGTGTGGGCTGCA 1174  
Db 19 ATGTGGGGAGTACGCTGCA 1

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RESULT 1214
ADF44292/c
ID ADF44292 standard; DNA; 21 BP.
XX
XX ADF44292;
AC
XX 12-FEB-2004 (first entry)
DT
XX HPV PCR primer GAP 21-3.
DE
XX detection; human papillomavirus; HPV subtype; PCR; primer; ss.
KW
XX Human papillomavirus.
OS
XX JP2002360271-A.
PN
XX 17-DEC-2002.
PD
XX 28-NOV-2001; 2001JP-00362595.
PF
XX 04-MAY-2001; 2001TW-00110785.
PR
XX (KING-) KING CAR FOOD IND CO LTD.
PA
XX WPI; 2003-600935/57.
DR
XX
XX A detecting apparatus and a detecting method for identifying the subtypes
PT of many species of human papilloma viruses at the same time and a
PT composition for the detection.
PT
XX Example 2.1.1; SEQ ID NO 649; 166bp; Japanese.
PS
XX This invention describes a novel detecting apparatus for identifying the
CC subtypes of human papillomaviruses (HPV) contained in a sample which
CC comprises a carrier which can load sample, a first oligonucleotide loaded
CC on first part of the carrier and a second oligonucleotide loaded on
CC second part of carrier, in which first and second oligonucleotides
CC hybridise with the DNA of the first and the second HPV subtype and can
CC identify HPV subtype contained in sample at the same time. This sequence
CC represents a PCR primer used in the method of the invention.
XX
SQ Sequence 21 BP; 5 A; 9 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1156 ATGTGGGGTGTGGGTGCA 1174
Db 19 ATGTGGGGAGTACGTGCA 1

RESULT 1215
ADF18039/c
ID ADF18039 standard; DNA; 21 BP.
XX
XX ADF18039;
AC
XX 12-FEB-2004 (first entry)
DT
XX Mouse zsig37 sequencing primer #10.
DE
XX blood flow; adipocyte complement related protein; thrombogenic activity;
KW complement activity; vasculature; cardiopulmonary bypass ischaemia;
KW resuscitation; myocardial infarction; post-trauma vasospasm; stroke;
KW percutaneous transluminal angioplasty; endarterectomy;
KW accidental vascular trauma; surgical-induced vascular trauma;
KW thrombosis formation; mouse; zsig37; ss; primer; sequencing.
XX
XX Mus musculus.
OS
XX US2003078206-A1.
PN

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XX
PD 24-APR-2003.
XX
PF 10-SEP-2002; 2002US-00241258.
XX
PR 19-FEB-1999; 99US-00253604.
PR 22-NOV-1999; 99US-00444794.
PR 17-FEB-2000; 2000US-00506855.
PR 17-JUL-2002; 2002US-00198695.
XX
XX (SHEP/) SHEPPARD P D.
PA (LASS/) LASSER G W.
PA (BISH/) BISHOP P D.
XX
XX Sheppard PD, Lasser GW, Bishop PD;
XX
XX WPI; 2003-616010/58.
XX
XX Promoting blood flow within the vasculature of mammals using an adipocyte
PT complement related protein, useful for diagnosing and treating
PT cardiopulmonary bypass ischemia, myocardial infarction, stroke and/or
PT vascular trauma.
XX
XX Example 9; SEQ ID NO 41; 43pp; English.
XX
XX The invention relates to a method of promoting blood flow within the
CC vasculature of a mammal comprises administering an adipocyte complement
CC related protein in a vehicle, where the adipocyte complement related
CC protein reduces thrombogenic and complement activity within the
CC vasculature. The methods and compositions of the present invention are
CC useful for diagnosing and treating damaged collagenous tissues, such as
CC cardiopulmonary bypass ischaemia and resuscitation, myocardial infarction
CC or post-trauma vasospasm including stroke, percutaneous transluminal
CC angioplasty, endarterectomy, accidental vascular trauma or surgical-
CC induced vascular trauma. They can also be used in reducing thrombosis
CC formation within the vasculature of a mammal. The present sequence is
CC used in the exemplification of the invention.
XX
XX Sequence 21 BP; 5 A; 4 C; 8 G; 4 T; 0 U; 0 Other;
SQ

Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 822 GAAGTCCCTCACCCCTGTC 840
Db 21 GAAGTCCCTCTCACCTGTC 3

RESULT 1216
ADJ37408
ID ADJ37408 standard; DNA; 21 BP.
XX
XX ADJ37408;
AC
XX 22-APR-2004 (first entry)
DT
XX Tumour therapy associated PRO4316 primer seq id 127.
DE
XX
XX cytostatic; gene therapy; PRO; PRO197; PRO207; PRO226; PRO232; PRO243;
KW PRO256; PRO269; PRO274; PRO304; PRO339; PRO1558; PRO779; PRO1185;
KW PRO1245; PRO1759; PRO5775; PRO7133; PRO7168; PRO5725; PRO202; PRO206;
KW PRO264; PRO313; PRO342; PRO542; PRO773; PRO861; PRO1216; PRO1686;
KW PRO1800; PRO3562; PRO9850; PRO539; PRO4316; PRO4980; cancer; tumour;
KW neoplastic cell growth; neoplastic cell proliferation; carcinoma;
KW lymphoma; blastoma; sarcoma; leukaemia; primer; ss.
XX
XX Homo sapiens.
OS
XX US2003211096-A1.
PN
XX 13-NOV-2003.
XX
XX

```



XX Mouse zsig37 orthologue sequencing primer ZC18687.

XX Blood flow; vasodilation; wound repair; platelet inhibition; tumour;

XX vascular occlusion; ischaemic reperfusion injury; microvascular repair;

XX adipocyte complement related protein; intestinal strangulation; trauma;

XX angioplasty; coronary artery bypass graft; endarterectomy; aneurysm;

XX anastomosis; stroke; cardiopulmonary bypass ischaemia; inflammation;

XX myocardial infarction; percutaneous transluminal angioplasty; infection;

XX post-trauma vasospasm; prostatic biomaterial; fibroblast recruitment;

XX wound retraction; mouse; zsig37; primer; ss; sequencing; PCR.

XX Mus musculus.

XX US2003022838-A1.

XX 30-JAN-2003.

XX 25-JUN-2002; 2002US-00180762.

XX 19-FEB-1999; 99US-00253604.

XX 22-NOV-1999; 99US-00444794.

XX 17-FEB-2000; 2000US-00506855.

XX 19-JUL-2000; 2000US-00619740.

XX (SHEP/) SHEPPARD P O.

XX (LASS/) LASSER G W.

XX (BISH/) BISHOP P D.

XX Sheppard PO, Lasser GW, Bishop PD;

XX WPI; 2003-456304/43.

XX Promoting blood flow or inducing vasodilation within vasculature of

XX mammal, or pacifying damaged collagenous tissues or pacifying surface of

XX prostatic biomaterial, by administering adipocyte complement related

XX protein.

XX Example 9; Page 29; 46pp; English.

XX The invention relates to a method of promoting blood flow or inducing

XX vasodilation within the vasculature of a mammal, pacifying damaged

XX collagenous tissues or surface of prostatic biomaterial, mediating wound

XX repair, inhibiting platelet adhesion, activation or accretion, minimising

XX vascular occlusion, protecting ischaemic myocardium from reperfusion

XX injury or mediating tumour metastasis, comprising administering adipocyte

XX complement related protein. The method is useful for promoting blood flow

XX within the vasculature of a mammal, where the mammal suffers from acute

XX vascular injury, where the injury is due to vascular reconstruction which

XX comprises angioplasty, coronary artery bypass graft, endarterectomy,

XX microvascular repair or anastomosis of a vascular graft, or the injury is

XX due to trauma, stroke or aneurysm. The method is useful for pacifying

XX damaged collagenous tissues within a mammal, where the damaged

XX collagenous tissues are due to injury associated with ischaemia and

XX reperfusion. The injury comprises trauma injury, ischaemia, intestinal

XX strangulation, or injury associated with pre- and post-establishment of

XX blood flow. The mammal suffers from cardiopulmonary bypass ischaemia and

XX resuscitation, myocardial infarction, or post-trauma vasospasm. The post-

XX trauma vasospasm comprises stroke, percutaneous transluminal angioplasty,

XX endarterectomy, accidental vascular trauma or surgical-induced vascular

XX trauma. The method is useful for pacifying the surface of a prostatic

XX biomaterial for use in association with a mammal, where the surface of

XX the prostatic biomaterial is coated with collagen or collagen fragments,

XX gelatin, fibrin or fibronectin. The method is useful for mediating wound

XX repair within a mammal, where the method enhances progression in wound

XX healing and progression in wound healing comprises reduction in

XX inflammation, reduction in fibroblast recruitment, wound retraction, or

XX reduction in infection. The method is useful for inhibiting platelet

XX adhesion, activation or accretion. The method is useful for minimising

XX vascular occlusion by increasing patency time in a patient in need of the

XX treatment. The method is useful for inducing vasodilation within the

XX vasculature of a mammal. The method is useful for protecting ischaemic

XX myocardium from reperfusion injury. The method is useful for mediating

CC tumour metastasis. The present sequence represents the mouse adipocyte

CC complement related protein zsig27 DNA orthologue sequencing primer

XX

SQ Sequence 21 BP; 5 A; 4 C; 8 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;

Best Local Similarity 84.2%; Pred. NO. 9.1e+02;

Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 822 GAAGTCCCTCACCCTTGTC 840

DB 21 GAAGTCCCTCACCCTTGTC 3

RESULT 1219

ADM47388/c

ID ADM47388 standard; DNA; 21 BP.

XX

AC ADM47388;

XX

DT 03-JUN-2004 (first entry)

XX

DE NOVX oligonucleotide probe, SEQ ID No 221.

XX

KW NOVX; cytostatic; gene therapy; vaccine; cancer; chromosome mapping;

KW probe; ss.

XX

OS Unidentified.

XX

PN WO2003083039-A2.

XX

PD 09-OCT-2003.

XX

PF 03-JUL-2002; 2002WO-US021485.

XX

PR 05-JUL-2001; 2001US-0303046P.

PR 09-JUL-2001; 2001US-0303828P.

PR 11-JUL-2001; 2001US-0304502P.

PR 12-JUL-2001; 2001US-0305011P.

PR 13-JUL-2001; 2001US-0305262P.

PR 16-JUL-2001; 2001US-0305673P.

PR 17-JUL-2001; 2001US-0306085P.

PR 24-JUL-2001; 2001US-0307536P.

PR 27-JUL-2001; 2001US-0308228P.

PR 30-JUL-2001; 2001US-0308877P.

PR 14-AUG-2001; 2001US-0312203P.

PR 17-SEP-2001; 2001US-0322640P.

PR 19-SEP-2001; 2001US-0323484P.

PR 21-SEP-2001; 2001US-0323821P.

PR 21-SEP-2001; 2001US-0323948P.

PR 25-SEP-2001; 2001US-0324711P.

PR 09-OCT-2001; 2001US-0327893P.

PR 21-NOV-2001; 2001US-0331768P.

PR 21-FEB-2002; 2002US-0359191P.

PR 22-FEB-2002; 2002US-0358939P.

PR 28-FEB-2002; 2002US-0360923P.

PR 01-MAR-2002; 2002US-0360830P.

PR 05-MAR-2002; 2002US-0361178P.

PR 12-MAR-2002; 2002US-0363429P.

PR 12-MAR-2002; 2002US-0363683P.

PR 12-APR-2002; 2002US-0372141P.

PR 16-APR-2002; 2002US-0372967P.

PR 16-APR-2002; 2002US-0373051P.

PR 16-APR-2002; 2002US-0373063P.

PR 17-APR-2002; 2002US-0373280P.

PR 17-APR-2002; 2002US-0373287P.

PR 19-APR-2002; 2002US-0373881P.

PR 02-JUL-2002; 2002US-00187975.

XX

PA (CURA-) CURAGEN CORP.

XX

PI Li L, Shenoy SG, Patturajan M, Ellerman K, Gorman L, Zhong M;

PI Catterton E, Spytek KA, Miller CE, Edinger SR, Hjalt T, Gerlach VL;  
PI Shimkets RA, Taupier RJ, Anderson DW, Guo X, Baumgartner JC;  
PI Padigar M, Peyman JA, Smithson G, Casman SJ, Voss EZ, Boldog FL;  
PI Pena CEA, Chapoval A, Rastelli L, Kekuda R, Vernet CM;  
XX WPI; 2003-812538/76.  
DR  
XX  
XX  
PT New NOVX polypeptide, useful for preparing a composition for treating or  
PT preventing e.g. cancer or for chromosome mapping.  
XX  
XX  
PS Example C; SEQ ID NO 221; 433pp; English.  
XX  
XX  
CC The invention relates to a novel isolated polypeptide, designated NOVX.  
CC The novel polypeptide comprises a sequence comprising 109-1671 amino  
CC acids, or its mature form; a sequence that is at least 95% identical to  
CC the 109-1671 amino acid polypeptide; or a sequence comprising one or more  
CC conservative substitutions in the 109-1671 amino acid polypeptide. The  
CC invention further comprises: a composition; a kit comprising the  
CC composition; a method for determining the presence or amount of the  
CC polypeptide or nucleic acid molecule in a sample; determining the  
CC presence of, or predisposition to, a disease associated with the altered  
CC levels of nucleic acid or of expression of the polypeptide in a first  
CC mammalian subject; identification of an agent that binds to the  
CC polypeptide; identification of a potential therapeutic agent for treating  
CC a pathology related to aberrant expression or physiological interactions  
CC of the polypeptide; a method of screening for a modulator of activity or  
CC latency of, or predisposition to, a pathology associated with the  
CC polypeptide; a method for modulating the activity of the polypeptide;  
CC treating or preventing a pathology associated with the polypeptide;  
CC treating a pathological state in a mammal; an isolated nucleic acid  
CC molecule; a vector comprising the nucleic acid molecule; a cell  
CC comprising the vector; an antibody that immunospecifically binds to the  
CC polypeptide; and a method for producing the polypeptide. The NOVX  
CC polypeptide and its encoding nucleic acid have cytostatic activity. The  
CC NOVX polynucleotide can be used in gene therapy to treat disorders. The  
CC NOVX polypeptide can be used to create a vaccine. The polypeptide is  
CC useful for preparing a composition for treating or preventing a  
CC pathological state in a mammal, e.g., cancer, or for chromosome mapping.  
CC This polynucleotide sequence represents a probe used in the  
CC exemplification of the invention.  
XX  
SQ Sequence 21 BP; 4 A; 10 C; 2 G; 5 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 350 TGGGCTCTGATGGGAGAG 368  
Db 19 TGGGGCTTATAGGAGAG 1  
RESULT 1220  
ADG68332  
ID ADG68332 standard; DNA; 21 BP.  
XX  
AC ADG68332;  
XX  
XX  
DT 11-MAR-2004 (first entry)  
XX  
DE Human PRO polypeptide PCR primer #35.  
XX  
XX neoplastic tumour; lung; colon; breast; prostate; rectal; cervical;  
XX liver; gene therapy; Human; ss; primer; PCR.  
OS Homo sapiens.  
XX  
XX US2003170228-A1.  
PN  
XX  
XX 11-SEP-2003.  
PD  
XX  
XX 02-AUG-2002; 2002US-00210951.  
PF  
XX

PR 31-AUG-1999; 99US-01516899.  
PR 11-FEB-2000; 2000WO-US003565.  
PR 09-AUG-2001; 2001US-00927796.  
XX (GETH ) GENENTECH INC.  
PA  
XX  
XX Ashkenazi AJ, Goddard A, Godowski PJ, Gurney AL, Hillan KJ;  
PI Marsters SA, Pan J, Pitti RM, Roy MA, Smith V, Stone DM;  
PI Watanabe CK, Wood WI;  
XX  
XX WPI; 2004-020650/02.  
DR  
XX  
XX New isolated antibodies binding PRO polypeptides, useful for diagnosing,  
PT prognosticating and/or treating neoplastic tumors, such as lung, colon,  
PT breast, prostate, rectal, cervical and liver tumors.  
XX  
XX Example 24; SEQ ID NO 127; 308pp; English.  
PS  
XX  
XX The invention relates to an isolated antibody that binds to a PRO  
CC polypeptide. The methods and compositions of the present invention are  
CC useful for diagnosing, prognosticating and/or treating neoplastic  
CC tumours, such as lung, colon, breast, prostate, rectal, cervical and  
CC liver tumours. The PRO polypeptides are also useful as molecular weight  
CC markers, or for chromosome identification. The PRO genes are useful as  
CC hybridisation probes, or for screening libraries of Human cDNA, genomic  
CC DNA or mRNA. The PRO genes may also be used in gene therapy, particularly  
CC for replacing a defective gene. The present sequence is used in the  
CC exemplification of the invention.  
XX  
SQ Sequence 21 BP; 6 A; 5 C; 8 G; 2 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
Qy 507 GGGCTACCTGGAGAGCTG 525  
Db 2 GGACGACCAGGAGAGCTG 20  
RESULT 1221  
ADK98272  
ID ADK98272 standard; DNA; 21 BP.  
XX  
AC ADK98272;  
XX  
XX 06-MAY-2004 (first entry)  
DT  
XX  
DE Primer of the invention #3992.  
XX  
XX human; single nucleotide polymorphism; SNP; ss; primer.  
OS Synthetic.  
XX  
XX JP2003259875-A.  
PN  
XX  
XX 16-SEP-2003.  
PD  
XX  
XX 08-MAR-2002; 2002JP-00064373.  
PF  
XX  
XX 08-MAR-2002; 2002JP-00064373.  
PR  
XX  
XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.  
PA  
XX  
XX WPI; 2004-093977/10.  
DR  
XX  
XX Novel polynucleotide useful for PCR amplification along with two DNA  
PT fragment from another set of sequences, or for detecting single  
PT nucleotide polymorphism in human gene.  
XX  
XX Claim 2; SEQ ID NO 7301; 2627pp; Japanese.  
PS  
XX  
XX The present invention relates to a polynucleotide isolated from a human  
CC

CC gene and is useful for detecting a single nucleotide polymorphism in a  
CC human gene or for diagnosing of disease. The invention enables the  
CC detection of a single nucleotide polymorphism in a human gene. The  
CC present sequence represents a primer of the invention.  
XX  
SQ Sequence 21 BP; 2 A; 7 C; 6 G; 6 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 1692 CCTGCTACTCTCTGCCT 1710  
Db 2 CACTGGTAGTCTCTGCCT 20  
  
RESULT 1222  
ADJ96243/c  
ID ADJ96243 standard; DNA; 21 BP.  
XX  
AC ADJ96243;  
XX  
DT 06-MAY-2004 (first entry)  
XX  
DE Primer of the invention #2655.  
XX  
KW human; single nucleotide polymorphism; SNP; ss; primer.  
XX  
OS Synthetic.  
XX  
PN JP2003259875-A.  
XX  
PD 16-SEP-2003.  
XX  
PF 08-MAR-2002; 2002JP-00064373.  
XX  
PR 08-MAR-2002; 2002JP-00064373.  
XX  
PA (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.  
XX  
WPI; 2004-093977/10.  
XX  
PT Novel polynucleotide useful for PCR amplification along with two DNA  
PT fragment from another set of sequences, or for detecting single  
PT nucleotide polymorphism in human gene.  
XX  
PS Claim 2; SEQ ID NO 5964; 2627pp; Japanese.  
XX  
CC The present invention relates to a polynucleotide isolated from a human  
CC gene and is useful for detecting a single nucleotide polymorphism in a  
CC human gene or for diagnosing of disease. The invention enables the  
CC detection of a single nucleotide polymorphism in a human gene. The  
CC present sequence represents a primer of the invention.  
XX  
SQ Sequence 21 BP; 6 A; 8 C; 3 G; 4 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 340 GACTTGAAGATGGGGTCTG 358  
Db 20 GATTGAGATGGAGTCTG 2  
  
RESULT 1223  
ADJ96243/c  
ID ADJ96243 standard; DNA; 21 BP.  
XX  
AC ADJ96243;  
XX  
DT 06-MAY-2004 (first entry)  
XX

DE Primer ZC18687 used to generate mouse zsig37 DNA.  
XX  
KW Haemostasis; immune function; wound repair; infection; zsig37; mouse;  
KW primer; ss.  
XX  
OS Mus sp.  
XX  
PN US2004014650-A1.  
XX  
PD 22-JAN-2004.  
XX  
PF 17-JUL-2002; 2002US-00198695.  
XX  
PR 17-JUL-2002; 2002US-00198695.  
XX  
PA (SHEP/) SHEPPARD P D.  
PA (LASS/) LASSER G W.  
PA (BISH/) BISHOP P D.  
XX  
PI Sheppard PD, Lasser GW, Bishop PD;  
XX  
WPI; 2004-132060/13.  
XX  
PT Use of adipocyte complement related protein for promoting blood flow  
PT within the vasculature, pacifying damaged collagenous tissues, pacifying  
PT the surface of a prostatic biomaterial or mediating a wound repair within  
PT a mammal.  
XX  
XX Example 9; SEQ ID NO 41; 42pp; English.  
XX  
PS The present invention relates to polynucleotides and polypeptide  
PS molecules for use asinhibitors in haemostasis and immune function. The  
CC invention is useful promoting blood flow, pacifying damaged collagenous  
CC tissues, pacifying the surface of a prostatic biomaterial and mediating a  
CC wound repair within a mammal. The invention is also useful in preventing  
CC infection at the wound site. The present sequence is a primer used to to  
CC generate mouse zsig37 DNA. The primer is used in the exemplification of  
CC the invention.  
XX  
SQ Sequence 21 BP; 5 A; 4 C; 8 G; 4 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14.2; DB 1; Length 21;  
Best Local Similarity 84.2%; Pred. No. 9.1e+02;  
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
  
QY 822 GAAGTCCCTCACCCCTGTC 840  
Db 21 GAAGTCCCTCTCACGTGTC 3  
  
RESULT 1224  
ADM94143/c  
ID ADM94143 standard; DNA; 21 BP.  
XX  
AC ADM94143;  
XX  
DT 15-JUL-2004 (first entry)  
XX  
DE TCRD gene related Vdelta4 primer.  
XX  
KW nucleic acid amplification; primer; PCR; detection;  
KW chromosomal translocation; clonal rearrangement; chromosome aberration;  
KW lymphoproliferative disorder; ss.  
XX  
OS Synthetic.  
XX  
PN WO2004033728-A2.  
XX  
PD 22-APR-2004.  
XX  
PF 13-OCT-2003; 2003WO-NL000690.  
XX  
PR 11-OCT-2002; 2002US-0417779P.

```

XX PA (UYVO-) UNIV ROTTERDAM ERASMUS.
XX PA (DAVI/) DAVI F B L.
XX
XX PI Van Dongen JUM, Langerak AW, Schuurink EMD, San Miquel JF;
XX PI Garzia Sanz R, Parreira A, Smith JL, Lavender FL, Morgan GJ;
XX PI Evans PAS, Kneba M, Hummel M, Macintyre EA, Bastard C;
XX
XX DR WPI; 2004-364878/34.
XX
XX PT New set of nucleic amplification primers comprising a forward primer and
XX PT a reverse primer and capable of amplifying a rearrangement, useful in
XX PT diagnosing lymphoproliferative disorders.
XX
XX PS Claim 9; Fig 9B; 121pp; English.
XX
XX CC The present invention describes a set of nucleic amplification primers
XX CC capable of amplifying a VH-JH or DH-JH IGH, VK-JK or VK/intron-Kde IGH,
XX CC Vlambda-Jlambda IGL, Vbeta-Jbeta TCRB or Dbeta-Jbeta TCRB, Vgamma-Jgamma
XX CC TCRG, Vdelta-Jdelta, Ddelta-Jdelta or Vdelta-Ddelta TCRD rearrangement
XX CC comprising a forward primer and a reverse primer. Also described: (1) a
XX CC nucleic acid amplification assay, preferably a PCR or multiplex PCR
XX CC assay, using the set of primers; (2) detecting VH-JH or DH-JH IGH, VK-JK
XX CC or VK/intron-Kde IGH, Vlambda-Jlambda IGL, Vbeta-Jbeta TCRB or Dbeta-
XX CC Jbeta TCRB, Vgamma-Jgamma TCRG, Vdelta-Jdelta, Ddelta-Jdelta or Vdelta-Ddelta
XX CC TCRD rearrangement; (3) detecting chromosomal translocation (11;14) (BCL2-
XX CC JG2-1) or t(14;18) (BCL2-IGH); (4) detecting human TBXAS1 recombination
XX CC activating protein (RAG1), promyelocytic leukaemia zinc finger protein
XX CC (PLZF) or APL gene; (5) assessing clonal rearrangements and/or chromosome
XX CC aberrations; and (6) a kit for the detecting at least one rearrangement
XX CC comprising the set of primers. The new set of nucleic amplification
XX CC primers capable of amplifying a VH-JH or DH-JH IGH, VK-JK or VK/intron-
XX CC Kde IGH, Vlambda-Jlambda IGL, Vbeta-Jbeta TCRB or Dbeta-Jbeta TCRB, Vgamma-
XX CC Jgamma TCRG, Vdelta-Jdelta, Ddelta-Jdelta or Vdelta-Ddelta TCRD rearrangement
XX CC are useful in diagnosing lymphoproliferative disorders. The present
XX CC sequence is used in an example from the present invention.
XX
XX SQ Sequence 21 BP; 10 A; 5 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14.2; DB 1; Length 21;
Best Local Similarity 84.2%; Pred. No. 9.1e+02;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1399 CTGTTCAGTTTGAGGGTC 1417
Db ||||| ||||| ||||| |||||
21 CTGTTCAGTTTGTCTGTC 3

RESULT 1225
AAT55032
ID AAT55032 standard; RNA; 15 BP.
XX
XX AC AAT55032;
XX
XX DT 25-MAR-2003 (revised)
XX DT 18-APR-1997 (first entry)
XX
XX DE Human relA hammerhead ribozyme target sequence (nt. position 630) .
XX
XX KW Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;
XX KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;
XX KW intercellular adhesion molecule; rel A; tumour necrosis factor;
XX KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;
XX KW translocation; chronic myelogenous leukaemia; CML; cancer;
XX KW Philadelphia chromosome; inflammation; autoimmune disease;
XX KW atherosclerosis; myocardial infarction; stroke; restenosis;
XX KW transplant rejection; rheumatoid arthritis; psoriasis;
XX KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;
XX KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;
XX KW ss.
XX
XX OS Homo sapiens.
XX

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PN W09523225-A2.
XX
XX PD 31-AUG-1995.
XX
XX PF 23-FEB-1995; 95WO-IB000156.
XX
XX PR 23-FEB-1994; 94US-00201109.
XX PR 29-MAR-1994; 94US-00218934.
XX PR 04-APR-1994; 94US-00222795.
XX PR 07-APR-1994; 94US-00224483.
XX PR 15-APR-1994; 94US-00227958.
XX PR 15-APR-1994; 94US-00228041.
XX PR 18-MAY-1994; 94US-00245736.
XX PR 06-JUL-1994; 94US-00271280.
XX PR 15-AUG-1994; 94US-00291932.
XX PR 16-AUG-1994; 94US-00291433.
XX PR 17-AUG-1994; 94US-00292620.
XX PR 19-AUG-1994; 94US-00293520.
XX PR 02-SEP-1994; 94US-00300000.
XX PR 08-SEP-1994; 94US-00303039.
XX PR 23-SEP-1994; 94US-00311486.
XX PR 23-SEP-1994; 94US-00311749.
XX PR 28-SEP-1994; 94US-00314397.
XX PR 03-OCT-1994; 94US-00316771.
XX PR 07-OCT-1994; 94US-00319492.
XX PR 11-OCT-1994; 94US-00321993.
XX PR 04-NOV-1994; 94US-00334847.
XX PR 10-NOV-1994; 94US-00337608.
XX PR 28-NOV-1994; 94US-00345516.
XX PR 16-DEC-1994; 94US-00357577.
XX PR 23-DEC-1994; 94US-00363233.
XX PR 30-JAN-1995; 95US-00380734.
XX
XX PA (RIBO-) RIBOZYME PHARM INC.
XX
XX PI Stinchcomb DT, Chowrira B, Drenzo A, Draper KG, Dudycz LW;
XX PI Grimm S, Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;
XX PI Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;
XX PI Tracz D, Usman N, Wincott FB, Woolf T;
XX
XX WPI; 1995-351090/45.
XX
XX DR Ribozymes having modified bases and methods for producing them - for use
XX DR in inhibiting disease related genes.
XX
XX PT Claim 2; Page 228; 407pp; English.
XX
XX CC The present sequence represents a preferred target sequence for an
XX CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves relA mRNA at the
XX CC nucleotide base position indicated in the DE line. The relA gene product
XX CC is a subunit of the transcriptional regulator NF-kappaB and is implicated
XX CC specifically in the induction of inflammatory responses. Regions of the
XX CC mRNA that do not form secondary folding structures and that contain
XX CC potential hammerhead and hairpin ribozyme cleavage sites were identified
XX CC by computer analysis. Ribozymes directed against these mRNA sequences
XX CC were designed and synthesised with modifications that improve their
XX CC nuclease resistance. The ribozymes are designed to cleave the target
XX CC sequences and thereby inhibit relA expression, making them potentially
XX CC useful for treating rheumatoid arthritis, restenosis and asthma as well
XX CC as for increasing tolerance to transplanted tissues. The potential
XX CC immunosuppressive properties of a ribozyme that cleaves relA mRNA means
XX CC that uses are limited to local delivery, acute indications or ex vivo
XX CC treatment. (Updated on 25-MAR-2003 to correct PI field.)
XX
XX SQ Sequence 15 BP; 4 A; 5 C; 1 G; 0 T; 5 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 7.4e+02;
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

Qy 538 CCCATCTTTGACAA 551
Db ||||| :|||
1 CCCAUCUUUGACAA 14

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## RESULT 1226

AAF50620

ID AAF50620 standard; DNA; 15 BP.

XX AC AAF50620;

XX DT 30-MAR-2001 (first entry)

XX DE IGF-I oligonucleotide #1580.

XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hyperneovascular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.

XX OS Homo sapiens.

XX PN WO200078341-A1.

XX PD 28-DEC-2000.

XX PF 21-JUN-2000; 2000WO-AU000693.

XX PR 21-JUN-1999; 99US-0140345P.

XX PA (MURD-) MURDOCH CHILDRENS RES INST.

XX PI Wright CJ, Werther GA, Edmondson SR;

XX DR WPI; 2001-041421/05.

XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.

XX PS Example 8; Page 71; 201pp; English.

XX CC The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hyperneovascular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia

XX SQ Sequence 15 BP; 2 A; 8 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 15;

Best Local Similarity 100.0%; Pred. No. 7.4e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1103 ACCGGCCCCCTGAC 1116

DB 1 ACCGGCCCCCTGAC 14

## RESULT 1227

AAF50616

ID AAF50616 standard; DNA; 15 BP.

XX AC AAF50616;

XX DT 30-MAR-2001 (first entry)

XX DE IGF-I oligonucleotide #1576.

XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
 KW cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
 KW growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hyperneovascular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.

XX OS Homo sapiens.

XX PN WO200078341-A1.

XX PD 28-DEC-2000.

XX PF 21-JUN-2000; 2000WO-AU000693.

XX PR 21-JUN-1999; 99US-0140345P.

XX PA (MURD-) MURDOCH CHILDRENS RES INST.

XX PI Wright CJ, Werther GA, Edmondson SR;

XX DR WPI; 2001-041421/05.

XX PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.

XX PS Example 8; Page 71; 201pp; English.

XX CC The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hyperneovascular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia

XX SQ Sequence 15 BP; 1 A; 8 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 15;

Best Local Similarity 100.0%; Pred. No. 7.4e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1100 GGTACCGGCCCT 1113

DB 2 GGTACCGGCCCT 15

## RESULT 1228

ABX04015/c

ID ABX04015 standard; DNA; 15 BP.

XX AC ABX04015;

XX XX



DT 09-JAN-2003 (first entry)  
 XX Resistance genes mefA & mefE DNA fragment.  
 DE  
 XX  
 KW Detection; probe; diagnosis; oral disease; paradontitis; caries; therapy;  
 KW polymorphism; virulence factor; antibiotic resistance gene; prognosis;  
 KW oral infection; detection; pathogen; coronary heart disease;  
 KW diabetic symptom; ss.  
 XX  
 OS Unidentified.  
 XX  
 XX DE20110013-U1.  
 PN  
 XX  
 PD 18-OCT-2001.  
 XX  
 XX  
 PF 13-MAR-2001; 2001DE-02010013.  
 XX  
 PR 13-MAR-2001; 2001DE-01012348.  
 PR 13-MAR-2001; 2001DE-02010013.  
 XX  
 PA (ROET/) ROETGER A.  
 XX  
 DR WPI; 2001-657777/76.  
 XX  
 XX Oligonucleotide array, useful for diagnosing oral diseases, particularly  
 PT paradontitis, carries human or microbial reference sequences.  
 PT  
 XX  
 PS Claim 10; Page 29; 58pp; German.  
 XX  
 CC This invention describes a novel nucleotide carrier with probes used for  
 CC diagnosis of oral diseases, particularly paradontitis, but also caries,  
 CC especially to identify genetic predisposition (as indicated by  
 CC polymorphisms) to disease and to identify causative microorganisms or  
 CC their associated virulence factors and antibiotic resistance genes, e.g.  
 CC for selection of therapy and for prognosis. They are also useful for  
 CC research into oral infections. The carriers allow simultaneous detection  
 CC of both host and pathogen parameters, providing quickly and simply an  
 CC individual's paradontitis profile, including detection of pathogens that  
 CC are associated with increased risk of coronary heart diseases and/or  
 CC aggravation of diabetic symptoms, and of opportunistic pathogens.  
 CC ABX03870-BEX04044 represent DNA fragments used to illustrate the method  
 CC of the invention  
 XX  
 SQ Sequence 15 BP; 1 A; 2 C; 5 G; 7 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 7.4e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 183 CATAGACACAGACCA 196  
 Db 14 CATAGACACAGACCA 1  
 RESULT 1229  
 ADM76115  
 ID ADM76115 standard; DNA; 15 BP.  
 XX  
 AC ADM76115;  
 XX  
 XX 03-JUN-2004 (first entry)  
 XX NEPHA gene transcriptional control region Spz1 binding site.  
 DE  
 XX Human; NEPHA; ephrin receptor; brain; chromosome 1; apoptosis;  
 KW drug screening; antisense therapy; gene therapy; cancer; tumour;  
 KW lung cancer; ovarian cancer; breast cancer; cervical cancer;  
 KW prostate cancer; bladder cancer; stomach cancer; colorectal cancer;  
 KW cytosstatic; transcriptional control region; promoter;  
 KW transcription factor binding site; ds.  
 XX  
 OS Homo sapiens.  
 XX

PN JP2003289876-A.  
 XX  
 PD 14-OCT-2003.  
 XX  
 PF 05-APR-2002; 2002JP-00103497.  
 XX  
 PR 05-APR-2002; 2002JP-00103497.  
 XX  
 PA (TAKE ) TAKEDA CHEM IND LTD.  
 XX  
 DR WPI; 2004-038434/04.  
 XX  
 PT Novel antisense oligonucleotide useful as anticancer agent for preventing  
 PT cancer e.g. lung cancer, stomach cancer, breast cancer.  
 XX  
 PS Example 2; Page 21; 38pp; Japanese.  
 XX  
 CC The invention relates to antisense oligonucleotides (ADM76030 and  
 CC ADM76031) targeted to the human NEPHA gene (ADM76029), which encodes a  
 CC novel brain-derived ephrin receptor (ADM76028). The NEPHA protein has  
 CC 50.7% homology to the human EphA7 ephrin receptor and its gene is located  
 CC on chromosome 1. Ephrin receptors are overexpressed in various cancers  
 CC and it has been found that inhibition of NEPHA expression promotes  
 CC apoptosis. The invention also relates to the NEPHA transcriptional  
 CC control (promoter) region (ADM76037); recombinant vectors and host cells  
 CC comprising the NEPHA promoter operably linked to a reporter gene; a  
 CC method of screening for compounds which inhibit or activate transcription  
 CC of the NEPHA gene; and pharmaceutical compositions comprising an  
 CC antisense oligonucleotide or a transcriptional inhibitor or activator.  
 CC The antisense oligonucleotides and modulators of NEPHA transcription are  
 CC useful for inducing apoptosis for the treatment and/or prevention of  
 CC cancers in which NEPHA is overexpressed such as lung cancer, ovarian  
 CC cancer, breast cancer, cervical cancer, prostate cancer, bladder cancer,  
 CC stomach cancer and colorectal cancer. Sequences ADM76038-ADM76371  
 CC represent transcription factor binding sites within the transcriptional  
 CC control region of the NEPHA gene.  
 XX  
 SQ Sequence 15 BP; 4 A; 3 C; 6 G; 2 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 7.4e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1645 CTGGAGGGATGCCA 1658  
 Db 2 CTGGAGGGATGCCA 15  
 RESULT 1230  
 AAX74928  
 ID AAX74928 standard; RNA; 17 BP.  
 XX  
 AC AAX74928;  
 XX  
 DT 28-JUL-1999 (first entry)  
 XX  
 DE Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #456.  
 XX  
 KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
 KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
 KW foetal liver kinase 1; ss.  
 XX  
 OS Mus sp.  
 XX  
 XX WO9715662-A2.  
 PN  
 XX 01-MAY-1997.  
 PD  
 XX 25-OCT-1996; 96WO-US017480.  
 PF  
 XX 26-OCT-1995; 95US-0005974P.  
 PR

PR 11-JAN-1996; 96US-00584040.  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (CHIR ) CHIRON CORP.  
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
XX WPI; 1997-259017/23.  
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
PT rheumatoid arthritis, etc., in a human patient.  
XX Claim 4; Page 168; 218pp; English.  
XX The present invention describes nucleic acid molecules which modulate the  
CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
CC receptors of vascular endothelial growth factor (VEGF). A patient  
CC (preferably human) having a condition associated with the level of the  
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
CC treated by administering the nucleic acid molecule or the expression  
CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
CC of nucleic acid molecules from the present invention  
XX  
SQ Sequence 17 BP; 4 A; 4 C; 3 G; 0 T; 6 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 17;  
Best Local Similarity 71.4%; Pred. No. 8.3e+02;  
Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;  
QY 539 CCATCTTTGACGAG 552  
DB 2 CCAUCUUGACGAG 15  
RESULT 1231  
AAX71437  
ID AAX71437 standard; RNA; 17 BP.  
XX  
AC AAX71437;  
XX  
DT 28-JUL-1999 (first entry)  
XX  
DE Human KDR VEGF receptor hammerhead ribozyme substrate #449.  
XX  
XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
KW foetal liver kinase 1; ss.  
XX  
OS Homo sapiens.  
XX  
XX WO9715662-A2.  
XX  
XX 01-MAY-1997.  
XX  
XX 25-OCT-1996; 96WO-US017480.  
XX  
XX 26-OCT-1995; 95US-0005974P.  
XX  
XX 11-JAN-1996; 96US-00584040.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX (CHIR ) CHIRON CORP.  
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
XX WPI; 1997-259017/23.  
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,

PT rheumatoid arthritis, etc., in a human patient.  
XX Claim 4; Page 110; 218pp; English.  
XX The present invention describes nucleic acid molecules which modulate the  
CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
CC receptors of vascular endothelial growth factor (VEGF). A patient  
CC (preferably human) having a condition associated with the level of the  
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
CC treated by administering the nucleic acid molecule or the expression  
CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
CC of nucleic acid molecules from the present invention  
XX  
SQ Sequence 17 BP; 4 A; 4 C; 6 G; 0 T; 3 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 17;  
Best Local Similarity 85.7%; Pred. No. 8.3e+02;  
Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
QY 819 GGAGAGTCCCTCA 832  
DB 1 GGAGAGUCCCUCA 14  
RESULT 1232  
AAX74911  
ID AAX74911 standard; RNA; 17 BP.  
XX  
AC AAX74911;  
XX  
DT 28-JUL-1999 (first entry)  
XX  
DE Mouse flt-1 VEGF receptor hammerhead ribozyme substrate #439.  
XX  
XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
KW foetal liver kinase 1; ss.  
XX  
OS Mus sp.  
XX  
XX WO9715662-A2.  
XX  
XX 01-MAY-1997.  
XX  
XX 25-OCT-1996; 96WO-US017480.  
XX  
XX 26-OCT-1995; 95US-0005974P.  
XX  
XX 11-JAN-1996; 96US-00584040.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX (CHIR ) CHIRON CORP.  
XX Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
XX WPI; 1997-259017/23.  
XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
PT rheumatoid arthritis, etc., in a human patient.  
XX  
XX Claim 4; Page 168; 218pp; English.  
XX The present invention describes nucleic acid molecules which modulate the  
CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
CC receptors of vascular endothelial growth factor (VEGF). A patient  
CC (preferably human) having a condition associated with the level of the  
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
CC treated by administering the nucleic acid molecule or the expression  
CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
CC of nucleic acid molecules from the present invention  
XX  
SQ Sequence 17 BP; 4 A; 4 C; 6 G; 0 T; 3 U; 0 Other;



DE Human EGF-R target sequence nucleotide position 2412.  
 XX Human; epidermal growth factor receptor; EGFR; EGF-R; target sequence;  
 KW hammerhead ribozyme; hairpin ribozyme; inhibition; cell proliferation;  
 KW cancer; genetic drift; detection; mutation; ss.  
 XX  
 OS Homo sapiens.  
 XX Synthetic.  
 XX WO200159103-A2.  
 XX 16-AUG-2001.  
 PD  
 XX 09-FEB-2001; 2001WO-US004273.  
 XX  
 XX 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 XX Blatt L, Mcswiggen J, Chowrira BM;  
 PI WPI; 1998-437449/37.  
 DR  
 XX  
 XX Enzymatic nucleic acids - which cleave RNA derived from an epidermal  
 PT growth factor receptor, useful for inhibiting cell proliferation and for  
 PT treating cancers.  
 XX  
 XX  
 PS Claim 5; Page 73; 109pp; English.  
 XX  
 XX The present invention describes enzymatic nucleic acid molecules (NAMs)  
 CC which specifically cleave RNA derived from an epidermal growth factor  
 CC receptor (EGF-R) gene. AAV97221 to AAV98043 and AAV98979 to AAV99090  
 CC represent specifically claimed target sequence from human EGF-R. AAV98044  
 CC to AAV98866 and AAV98867 to V9878 represent hammerhead ribozymes and  
 CC hairpin ribozymes respectively for human EGF-R. The NAMs are useful for  
 CC cleaving EGF-R RNA in the treatment of a condition associated with EGFR  
 CC expression levels e.g. to inhibit cell proliferation in the prevention or  
 CC treatment of cancers. The NAMs can also be used as diagnostic tools to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of EGF-R RNA in a cell  
 XX  
 XX Sequence 17 BP; 4 A; 6 C; 2 G; 0 T; 5 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 14; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 8.3e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1367 TTGATACGCGGG 1380  
 |||||  
 DB 17 TTGATACGCGGG 4  
 RESULT 1236  
 ABK02332  
 ID ABK02332 standard; RNA; 17 BP.  
 XX  
 AC ABK02332;  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Human NOGO Amberzyme #4.  
 XX  
 XX Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;

KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX WO200159103-A2.  
 XX 16-AUG-2001.  
 PD  
 XX 09-FEB-2001; 2001WO-US004273.  
 XX  
 XX 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 XX Blatt L, Mcswiggen J, Chowrira BM;  
 PI WPI; 2001-607195/69.  
 DR  
 XX  
 XX Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX  
 XX Claim 88; Page 130; 200pp; English.  
 XX  
 XX The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) pr  
 CC an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a VGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the  
 CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is an amberzyme molecule of the invention  
 XX  
 XX Sequence 17 BP; 1 A; 8 C; 6 G; 0 T; 2 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 14; DB 1; Length 17;  
 Best Local Similarity 85.7%; Pred. No. 8.3e+02;  
 Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;  
 QY 83 CCCGCGGCTCGAG 96  
 |||||  
 DB 4 CCCGCGGCUUGAG 17

RESULT 1237  
 ID ABK01785 standard; RNA; 17 BP.  
 XX AC ABK01785;  
 XX 12-MAR-2002 (first entry)  
 XX Human NOGO Zinzyme #107.  
 XX  
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FN WO200159103-A2.  
 XX  
 PD 16-AUG-2001.  
 XX  
 PF 09-FEB-2001; 2001WO-US004273.  
 XX  
 PR 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 PI Blatt L, Mcswiggen J, Chowrira BM;  
 XX WPI; 2001-607195/69.  
 DR  
 XX  
 PT Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.  
 XX  
 PS Claim 88; Page 97; 200pp; English.  
 XX  
 CC The invention relates to a nucleic acid molecule which down regulates  
 CC expression of a CD20 gene and a nucleic acid molecule which down  
 CC regulates expression of a neurite growth inhibitor gene (NOGO). The  
 CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a  
 CC DNazyme) an inozyme (an endolytic nucleic acid cleaving an RNA molecule  
 CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) or  
 CC an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA  
 CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA  
 CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.  
 CC Furthermore, it may be contacted with a cell to reduce CD20 activity of  
 CC the cell and treat a patient having a condition associated with the level  
 CC of CD20. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the CD20 targeting nucleic acid may be used to  
 CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular non-  
 CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, lymphocytic  
 CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell  
 CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,  
 CC immune thrombocytopaenia, and inflammatory arthropathy. The NOGO-  
 CC targeting nucleic acid is used to cleave RNA of the NOGO gene in the

CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the  
 CC nucleic acid may be contacted with a cell to reduce NOGO activity of the  
 CC cell and treat a patient having a condition associated with the level of  
 CC NOGO. The treatment may further comprise the use of one or more  
 CC therapies. In particular, the NOGO-targeting nucleic acid may be used to  
 CC treat central nervous system (CNS) injury and cerebrovascular accident  
 CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),  
 CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),  
 CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob  
 CC disease, muscular dystrophy, and/or other neurodegenerative disease  
 CC states which respond to the modulation of NOGO expression. The present  
 CC sequence is a zinzyme molecule of the invention  
 XX

SQ Sequence 17 BP; 2 A; 7 C; 6 G; 0 T; 2 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;

Best Local Similarity 85.7%; Pred. No. 8.3e+02;

Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

OY 83 CCGCGGGCTCTGAG 96

Db 3 CCGCGGGCTCTGAG 16

RESULT 1238

ABK00760

ID ABK00760 standard; RNA; 17 BP.

XX AC ABK00760;

XX 12-MAR-2002 (first entry)

XX Human NOGO Inozyme #30.

XX  
 KW Human; ss; antisense therapy; cytostatic; antiinflammatory; haemostatic;  
 KW cerebroprotective; neurotropic; neuroprotective; antiparkinsonian;  
 KW muscular; CD20; neurite growth inhibitor gene; NOGO; hammerhead ribozyme;  
 KW DNazyme; inozyme; G-cleaver; amberzyme; zinzyme; lymphoma; leukaemia;  
 KW B-cell lymphoma; non-Hodgkin's lymphoma; NHL; lymphocytic leukaemia;  
 KW human immunodeficiency virus; HIV associated NHL; mantle-cell lymphoma;  
 KW MCL; immunocytoma; IMC; immune thrombocytopaenia; stroke; dementia;  
 KW inflammatory arthropathy; central nervous system injury;  
 KW cerebrovascular accident; CVA; Alzheimer's disease; multiple sclerosis;  
 KW chemotherapy-induced neuropathy; amyotrophic lateral sclerosis; ALS;  
 KW Parkinson's disease; ataxia; Huntington's disease;  
 KW Creutzfeldt-Jakob disease; muscular dystrophy; neurodegenerative disease.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FN WO200159103-A2.  
 XX  
 PD 16-AUG-2001.  
 XX  
 PF 09-FEB-2001; 2001WO-US004273.  
 XX  
 PR 11-FEB-2000; 2000US-0181797P.  
 PR 28-FEB-2000; 2000US-0185516P.  
 PR 06-MAR-2000; 2000US-0187128P.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGGEN J.  
 PA (CHOW/) CHOWRIRA B M.  
 XX  
 PI Blatt L, Mcswiggen J, Chowrira BM;  
 XX WPI; 2001-607195/69.  
 DR  
 XX  
 PT Nucleic acid molecules, e.g., enzymatic nucleic acids and antisense  
 PT constructs, which down regulate expression of a CD20 gene or neurite  
 PT growth inhibitor gene useful for treating, e.g., lymphoma, leukemia, and  
 PT central nervous system injury.

XX PS Claim 88; Page 78; 200pp; English.

XX CC The invention relates to a nucleic acid molecule which down regulates

XX CC expression of a CD20 gene and a nucleic acid molecule which down

XX CC regulates expression of a neurite growth inhibitor gene (NOMO). The

XX CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a

XX CC DNzyme) an inozyme (an endolytic nucleic acid cleaving a an RNA molecule

XX CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) pr

XX CC an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA

XX CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA

XX CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.

XX CC Furthermore, it may be contacted with a cell to reduce CD20 activity of

XX CC the cell and treat a patient having a condition associated with the level

XX CC of CD20. The treatment may further comprise the use of one or more

XX CC therapies. In particular, the CD20 targeting nucleic acid may be used to

XX CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular NHL, lymphocytic

XX CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, mantle-cell

XX CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell

XX CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,

XX CC immune thrombocytopenia, and inflammatory arthropathy. The NMO-

XX CC targeting nucleic acid is used to cleave RNA of the NMO gene in the

XX CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the

XX CC nucleic acid may be contacted with a cell to reduce NMO activity of the

XX CC cell and treat a patient having a condition associated with the level of

XX CC NMO. The treatment may further comprise the use of one or more

XX CC therapies. In particular, the NMO-targeting nucleic acid may be used to

XX CC treat central nervous system (CNS) injury and cerebrovascular accident

XX CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),

XX CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),

XX CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob

XX CC disease, muscular dystrophy, and/or other neurodegenerative disease

XX CC states which respond to the modulation of NMO expression. The present

XX CC sequence is an inozyme of the invention

SQ Sequence 17 BP; 2 A; 7 C; 6 G; 0 T; 2 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;

Best Local Similarity 85.7%; Pred. No. 8.3e+02;

Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 83 CCGCGGCTCTGAG 96

DB 1 CCGCGGCGCUCGAG 14

RESULT 1239

ABL46440/C

ID ABL46440 standard; RNA; 17 BP.

XX AC ABL46440;

XX DT 27-JUN-2003 (first entry)

XX DE Human GRID hammerhead ribozyme substrate oligonucleotide #73.

XX KW Human; Grb2-related with Insert Domain; GRID; T-cell;

XX KW co-stimulatory adaptor protein; tissue rejection; graft rejection;

XX KW leukaemia; cytostatic; ss.

XX OS Homo sapiens.

XX PN WO200162911-A2.

XX PD 30-AUG-2001.

XX PF 23-FEB-2001; 2001WO-US005957.

XX PR 24-FEB-2000; 2000US-0184594P.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PA (GLAX ) GLAXO GROUP LTD.

XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, Hamblin PA, Ellis JH;

XX DR WPI; 2001-550088/61.

XX OS New nucleic acid(s) for regulating the Grb2-related with Insert Domain

XX PT (GRID) gene comprises using antisense and enzymatic nucleic acid

XX PT molecules such as hammerhead ribozymes.

XX PS Claim 4; Page 60; 108pp; English.

XX CC The present invention relates to oligonucleotides that downregulate the

XX CC expression of human Grb2-related with Insert Domain (GRID) gene. GRID is

XX CC a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful

XX CC for modulating the expression of GRID, to treat conditions such as

XX CC tissue/graft rejection and leukaemia. The oligonucleotides can also be

XX CC administered in conjunction with other therapies such as radiation,

XX CC chemotherapy and cyclosporin treatment. The present oligonucleotide was

XX CC used to illustrate the invention

SQ Sequence 17 BP; 5 A; 6 C; 1 G; 0 T; 5 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;

Best Local Similarity 100.0%; Pred. No. 8.3e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 598 TTGGGAAACTGGA 611

DB 16 TTGGGAAACTGGA 3

RESULT 1240

ABL46441/C

ID ABL46441 standard; RNA; 17 BP.

XX AC ABL46441;

XX DT 27-JUN-2003 (first entry)

XX DE Human GRID hammerhead ribozyme substrate oligonucleotide #74.

XX KW Human; Grb2-related with Insert Domain; GRID; T-cell;

XX KW co-stimulatory adaptor protein; tissue rejection; graft rejection;

XX KW leukaemia; cytostatic; ss.

XX OS Homo sapiens.

XX PN WO200162911-A2.

XX PD 30-AUG-2001.

XX PF 23-FEB-2001; 2001WO-US005957.

XX PR 24-FEB-2000; 2000US-0184594P.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PA (GLAX ) GLAXO GROUP LTD.

XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, Hamblin PA, Ellis JH;

XX DR WPI; 2001-550088/61.

XX OS New nucleic acid(s) for regulating the Grb2-related with Insert Domain

XX PT (GRID) gene comprises using antisense and enzymatic nucleic acid

XX PT molecules such as hammerhead ribozymes.

XX PS Claim 4; Page 60; 108pp; English.

XX CC The present invention relates to oligonucleotides that downregulate the

XX CC expression of human Grb2-related with Insert Domain (GRID) gene. GRID is

XX CC a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful

XX CC for modulating the expression of GRID, to treat conditions such as

XX CC tissue/graft rejection and leukaemia. The oligonucleotides can also be

XX CC administered in conjunction with other therapies such as radiation,

XX PS Claim 88; Page 78; 200pp; English.

XX CC The invention relates to a nucleic acid molecule which down regulates

XX CC expression of a CD20 gene and a nucleic acid molecule which down

XX CC regulates expression of a neurite growth inhibitor gene (NOMO). The

XX CC nucleic acids may be enzymatic nucleic acids (e.g. a ribozyme or a

XX CC DNzyme) an inozyme (an endolytic nucleic acid cleaving a an RNA molecule

XX CC possessing an NCH motif), a G-cleaver (cleaving RNA with a NYN motif) pr

XX CC an amberzyme (cleaving RNA with an NGN triplet), a zinzyme (cleaving RNA

XX CC with a YGY motif). The CD20-targeting nucleic acid is used to cleave RNA

XX CC of CD20 in the presence of a divalent cation that is preferably Mg<sup>2+</sup>.

XX CC Furthermore, it may be contacted with a cell to reduce CD20 activity of

XX CC the cell and treat a patient having a condition associated with the level

XX CC of CD20. The treatment may further comprise the use of one or more

XX CC therapies. In particular, the CD20 targeting nucleic acid may be used to

XX CC treat lymphoma, leukaemia, B-cell lymphoma, low-grade or follicular NHL, lymphocytic

XX CC Hodgkin's lymphoma (NHL), bulky low-grade or follicular NHL, mantle-cell

XX CC leukaemia, HIV (human immunodeficiency virus) associated NHL, mantle-cell

XX CC lymphoma (MCL), immunocytoma (IMC), small B-cell lymphocytic lymphoma,

XX CC immune thrombocytopenia, and inflammatory arthropathy. The NMO-

XX CC targeting nucleic acid is used to cleave RNA of the NMO gene in the

XX CC presence of a divalent cation that is preferably Mg<sup>2+</sup>. Furthermore, the

XX CC nucleic acid may be contacted with a cell to reduce NMO activity of the

XX CC cell and treat a patient having a condition associated with the level of

XX CC NMO. The treatment may further comprise the use of one or more

XX CC therapies. In particular, the NMO-targeting nucleic acid may be used to

XX CC treat central nervous system (CNS) injury and cerebrovascular accident

XX CC (CVA, stroke), Alzheimer's disease, dementia, multiple sclerosis (MS),

XX CC chemotherapy-induced neuropathy, amyotrophic lateral sclerosis (ALS),

XX CC Parkinson's disease, ataxia, Huntington's disease, Creutzfeldt-Jakob

XX CC disease, muscular dystrophy, and/or other neurodegenerative disease

XX CC states which respond to the modulation of NMO expression. The present

XX CC sequence is an inozyme of the invention

SQ Sequence 17 BP; 2 A; 7 C; 6 G; 0 T; 2 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;

Best Local Similarity 85.7%; Pred. No. 8.3e+02;

Matches 12; Conservative 2; Mismatches 0; Indels 0; Gaps 0;

QY 83 CCGCGGCTCTGAG 96

DB 1 CCGCGGCGCUCGAG 14

RESULT 1239

ABL46440/C

ID ABL46440 standard; RNA; 17 BP.

XX AC ABL46440;

XX DT 27-JUN-2003 (first entry)

XX DE Human GRID hammerhead ribozyme substrate oligonucleotide #73.

XX KW Human; Grb2-related with Insert Domain; GRID; T-cell;

XX KW co-stimulatory adaptor protein; tissue rejection; graft rejection;

XX KW leukaemia; cytostatic; ss.

XX OS Homo sapiens.

XX PN WO200162911-A2.

XX PD 30-AUG-2001.

XX PF 23-FEB-2001; 2001WO-US005957.

XX PR 24-FEB-2000; 2000US-0184594P.

XX PA (RIBO-) RIBOZYME PHARM INC.

XX PA (GLAX ) GLAXO GROUP LTD.

XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, Hamblin PA, Ellis JH;

XX DR WPI; 2001-550088/61.

XX OS New nucleic acid(s) for regulating the Grb2-related with Insert Domain

XX PT (GRID) gene comprises using antisense and enzymatic nucleic acid

XX PT molecules such as hammerhead ribozymes.

XX PS Claim 4; Page 60; 108pp; English.

XX CC The present invention relates to oligonucleotides that downregulate the

XX CC expression of human Grb2-related with Insert Domain (GRID) gene. GRID is

XX CC a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful

XX CC for modulating the expression of GRID, to treat conditions such as

XX CC tissue/graft rejection and leukaemia. The oligonucleotides can also be

XX CC administered in conjunction with other therapies such as radiation,

```
CC chemotherapy and cyclosporin treatment. The present oligonucleotide was
CC used to illustrate the invention
XX
SQ Sequence 17 BP; 5 A; 5 C; 2 G; 0 T; 5 U; 0 Other;

Query Match          0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 8.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 598 TTTCGGAAGAACTGGA 611
Db 15 TTTCGGAAGAACTGGA 2

RESULT 1241
ABL46442/c
ID ABL46442 standard; RNA; 17 BP.
XX
AC ABL46442;
XX
DT 27-JUN-2003 (first entry)
XX
DE Human GRID hammerhead ribozyme substrate oligonucleotide #75.
XX
KW Human; Grb2-related with Insert Domain; GRID; T-cell;
KW co-stimulatory adaptor protein; tissue rejection; graft rejection;
KW leukaemia; cytostatic; ss.
XX
OS Homo sapiens.
XX
FN WO200162911-A2.
XX
PD 30-AUG-2001.
XX
PF 23-FEB-2001; 2001WO-US005957.
XX
PR 24-FEB-2000; 2000US-0184594P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (GLAX) GLAXO GROUP LTD.
XX
PI Jarvis T, Von Carlowitz I, Mcswiggen JA, Hamblin PA, Ellis JH;
XX WP1; 2001-550088/61.
XX
DR New nucleic acid(s) for regulating the Grb2-related with Insert Domain
PT (GRID) gene comprises using antisense and enzymatic nucleic acid
PT molecules such as hammerhead ribozymes.
XX
PS Claim 4; Page 60; 108pp; English.
XX
CC The present invention relates to oligonucleotides that downregulate the
CC expression of human Grb2-related with Insert Domain (GRID) gene. GRID is
CC a T-cell co-stimulatory adaptor protein. The oligonucleotides are useful
CC for modulating the expression of GRID, to treat conditions such as
CC tissue/graft rejection and leukaemia. The oligonucleotides can also be
CC administered in conjunction with other therapies such as radiation,
CC chemotherapy and cyclosporin treatment. The present oligonucleotide was
CC used to illustrate the invention
XX
SQ Sequence 17 BP; 4 A; 5 C; 3 G; 0 T; 5 U; 0 Other;

Query Match          0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 8.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 598 TTTCGGAAGAACTGGA 611
Db 14 TTTCGGAAGAACTGGA 1

RESULT 1242
ABS75015
ID ABS75015 standard; DNA; 17 BP.
XX
AC ABS75015;
XX
DT 24-DEC-2002 (first entry)
XX
DE Human PAPP-Ea associated 17-mer SEQ ID 541.
XX
KW PAPP-E; human; pregnancy associated plasma protein E; abortive;
KW contraceptive; gene therapy; vaccine; pregnancy; antenatal; diagnosis;
KW dysgenetic pregnancy; primer; ss.
XX
OS Homo sapiens.
XX
FN US2002102252-A1.
XX
PD 01-AUG-2002.
XX
PF 06-APR-2001; 2001US-00827998.
XX
PR 26-MAY-2000; 2000US-0207456P.
XX
PA (GUY/) GU Y.
PA (SHAN/) SHANNON M E.
XX
PI Gu Y, Shannon ME;
XX
DR WPI; 2002-697817/75.
XX
PT New isolated nucleic acid encoding an isoform of human pregnancy
PT associated plasma protein E, for preventing or aborting pregnancy.
XX
PS Example 2; Page 146; 353pp; English.
XX
CC This invention describes a novel isolated nucleic acid that encodes one
CC of three new isoforms of human pregnancy associated plasma protein E,
CC hPAPP-E. The products of the invention have abortive and contraceptive
CC activity and can be used for gene therapy or in a vaccine. The nucleic
CC acid, polypeptide encoded by it, or antibody to the polypeptide can be
CC used in pharmaceutical compositions or vaccines for preventing or
CC aborting pregnancy. PAPP-E is used in the antenatal diagnosis of
CC dysgenetic pregnancies. The nucleic acids are used as probes to assess
CC the level of PAPP-E isoform mRNA in chorionic villus samples, and the
CC antibodies can be used to assess the expression levels of PAPP-E isoform
CC proteins in chorionic villus samples, to diagnose dysgenetic pregnancies
CC antenatally. This sequence represents an oligomer used in scanning the
CC human PAPP-E genes described in the disclosure of the invention
XX
SQ Sequence 17 BP; 4 A; 4 C; 2 G; 7 T; 0 U; 0 Other;

Query Match          0.8%; Score 14; DB 1; Length 17;
Best Local Similarity 100.0%; Pred. No. 8.3e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 287 AAC TTCGTTCTGCA 300
Db 4 AAC TTCGTTCTGCA 17

RESULT 1243
ABS75016
ID ABS75016 standard; DNA; 17 BP.
XX
AC ABS75016;
XX
DT 24-DEC-2002 (first entry)
XX
DE Human PAPP-Ea associated 17-mer SEQ ID 542.
XX
KW PAPP-E; human; pregnancy associated plasma protein E; abortive;
KW contraceptive; gene therapy; vaccine; pregnancy; antenatal; diagnosis;
KW dysgenetic pregnancy; primer; ss.
XX
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OS Homo sapiens.  
XX US2002102252-A1.  
XX PN  
XX PD 01-AUG-2002.  
XX PF 06-APR-2001; 2001US-00827998.  
XX PR 26-MAY-2000; 2000US-0207456P.  
XX PA (GUYV/) GU Y.  
XX PI (SHAN/) SHANNON M E.  
XX PT Gu Y, Shannon ME;  
XX DR WPI; 2002-697817/75.  
XX PT New isolated nucleic acid encoding an isoform of human pregnancy associated plasma protein E, for preventing or aborting pregnancy.  
XX PS Example 2; Page 146; 353pp; English.  
XX CC This invention describes a novel isolated nucleic acid that encodes one of three new isoforms of human pregnancy associated plasma protein E, hPAPP-E. The products of the invention have abortive and contraceptive activity and can be used for gene therapy or in a vaccine. The nucleic acid, polypeptide encoded by it, or antibody to the polypeptide can be used in pharmaceutical compositions or vaccines for preventing or aborting pregnancy. PAPP-E is used in the antenatal diagnosis of dysgenetic pregnancies. The nucleic acids are used as probes to assess the level of PAPP-E isoform mRNA in chorionic villus samples, and the antibodies can be used to assess the expression levels of PAPP-E isoform proteins in chorionic villus samples, to diagnose dysgenetic pregnancies antenatally. This sequence represents an oligomer used in scanning the human PAPP-E genes described in the disclosure of the invention  
XX SQ Sequence 17 BP; 4 A; 4 C; 2 G; 7 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8.3e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 287 AACTTCGTTCTGCA 300  
DB 3 AACTTCGTTCTGCA 16  
RESULT 1244  
AAB46160  
ID AAD46160 standard; DNA; 17 BP.  
XX AC AAD46160;  
XX AC  
XX DT 29-AUG-2003 (revised)  
XX DT 27-DEC-2002 (first entry)  
XX DE 3900 PCR primer, to clone T. reesei L-arabinitol 4-dehydrogenase gene.  
XX KW Genetically modified fungus; L-arabinose; L-arabinitol 4-dehydrogenase;  
XX KW EC 1.1.1.12; L-xylulose reductase; EC 1.1.1.10; agricultural product;  
XX KW biomass; lactic acid; xylitol; forestry product; fermentable sugar;  
XX KW ethanol; enzyme; PCR; primer; ss.  
XX OS Hypocrea jecorina.  
XX OS  
XX PN WO200266616-A2.  
XX PD 29-AUG-2002.  
XX PF 15-FEB-2002; 2002WO-FI000125.  
XX PR 16-FEB-2001; 2001FI-00000308.  
XX PA (VALM ) VALTION TEKNILLINEN TUTKIMUSKESKUS.  
XX PI Lonesborough J, Penttilae M, Richard P;  
XX DR WPI; 2002-691618/74.  
XX PT Genetically modified fungus for producing useful products such as ethanol, lactic acid and xylitol, from biomass containing L-arabinose, has increased ability to utilize L-arabinose.  
XX PS Example 2; Page 14; 32pp; English.  
XX CC The invention relates to generically modified fungus with an increased ability to utilize L-arabinose, where the fungus has been transformed with a DNA sequence encoding an L-arabinitol 4-dehydrogenase (EC 1.1.1.12) or L-xylulose reductase (EC 1.1.1.10) or both the DNA sequences. Genetically modified fungus is useful for producing useful products from biomass containing L-arabinose. The useful product include ethanol, lactic acid or xylitol preferably ethanol. It is also useful to ferment a carbon source such as biomass comprising agricultural or forestry products and waste products containing L-arabinose and also other pentoses or other fermentable sugars. The present sequence is a PCR primer used to clone T. reesei L-arabinitol 4-dehydrogenase gene. (Updated on 29-AUG-2003 to standardise OS field)  
XX SQ Sequence 17 BP; 5 A; 1 C; 8 G; 3 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8.3e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 8 AGCGTAAAGGATCG 21  
DB 2 AGCGTAAAGGATCG 15  
RESULT 1245  
ABT36202  
ID ABT36202 standard; DNA; 17 BP.  
XX AC ABT36202;  
XX DT 12-JUN-2003 (first entry)  
XX DE Tumour suppression related human fukutin oligo SEQ ID No 1839.  
XX KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; gene chip;  
XX KW antisense; sense; tumour; cell degeneration; cancer; Alzheimer's disease;  
XX KW schizophrenia; protein chip; gene therapy; tumour suppression;  
XX KW human fukutin; ds.  
XX OS Homo sapiens.  
XX PN WO2003025175-A2.  
XX PD 27-MAR-2003.  
XX PF 17-SEP-2002; 2002WO-IB004208.  
XX PR 17-SEP-2001; 2001FR-00011978.  
XX PA (MOLE-) MOLECULAR ENGINES LAB.  
XX PI Telerman A, Amson R, Tuijnder M;  
XX DR WPI; 2003-313353/30.  
XX PT New isolated nucleic acid, useful for treating viral diseases associated with tumors and cell degeneration, also related polypeptides, antibodies and transfected cells.  
XX PS Disclosure; Page 248; 720pp; French.  
XX XX



CC The invention relates to a novel isolated 17 mer nucleic acid sequence,  
 CC given in the specification, a sequence containing at least 15 consecutive  
 CC nucleotides from the 17 mer sequence, a sequence with, after optimal  
 CC alignment, at least 80 % identity to the 17 mer sequence, a sequence that  
 CC hybridizes to them under highly stringent conditions, or the complement  
 CC of any of them, or the corresponding RNA. The novel isolated nucleic  
 CC acids of the invention are useful as probes and primers for detecting,  
 CC identifying, quantifying and/or amplifying a nucleic acid, e.g. as one  
 CC component of a gene chip, in vitro as (anti)sense reagents, and for  
 CC production of recombinant polypeptides. Any of the nucleic acids,  
 CC polypeptides, vectors containing the nucleic acids, cells containing the  
 CC vector or antibodies directed against the polypeptides are useful for  
 CC preparation of pharmaceuticals for prevention and/or treatment of viral  
 CC diseases that are characterised by development of tumours or cell  
 CC degeneration, specifically cancer but also Alzheimer's disease and  
 CC schizophrenia. Analysis of the expression of the 17 mer nucleic acids in  
 CC patient samples is useful for diagnosis and/or prognosis of these  
 CC diseases. The polypeptides can also be used to generate antibodies, and  
 CC both the polypeptide and antibodies are useful as components of protein  
 CC chips. The nucleic acid sequences of the invention can be used in gene  
 CC therapy. This polynucleotide sequence represents a tumour suppression  
 CC related human fukutin oligonucleotide of the invention  
 XX  
 SQ Sequence 17 BP; 4 A; 6 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 8.3e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1573 TCAGGACGGCCAGC 1586

DB 3 TCAGGACGGCCAGC 16

RESULT 1246

ACA06338

ID ACA06338 standard; RNA; 17 BP.

AC ACA06338;

DT 03-JUN-2003 (first entry)

DE NFKB sub-unit modulating inozyme substrate #157.

KW Enzymatic nucleic acid; nuclear factor kappa B; NFKB; inozyme; zinzyme;  
 KW G-cleaver; amberzyme; cancer; REL-A activity; breast cancer; human;  
 KW lung cancer; prostate cancer; colorectal cancer; brain cancer;  
 KW oesophageal cancer; stomach cancer; bladder cancer; pancreatic cancer;  
 KW lymphoma; glioma; multidrug resistant cancer; ovarian cancer; melanoma;  
 KW chemotheraphy; paclitaxel; docetaxel; cisplatin; methotrexate;  
 KW cyclophosphamide; doxorubin; fluorouracil carboplatin; edatrexate;  
 KW gemcitabine; radiation therapy; inflammatory disease; asthma; diabetes;  
 KW rheumatoid arthritis; restenosis; Crohn's disease; obesity; diabetes;  
 KW gene therapy; autoimmune disease; lupus; multiple sclerosis; sepsis;  
 KW transplant/graft rejection; reperfusion injury; glomerulonephritis;  
 KW allergic airway inflammation; inflammatory bowel disease; infection; ss.  
 OS Homo sapiens.

XX US2002177568-A1.

XX 28-NOV-2002.

XX 23-MAY-2001; 2001US-00864785.

XX 07-DEC-1992; 92US-00987132.

XX 18-MAY-1994; 94US-00245456.

XX 15-AUG-1994; 94US-00291932.

XX 23-DEC-1996; 96US-00777916.

XX (STIN/) STINCHCOMB D T.

PA (MCSW/) MCSWIGGEN J.

PA (DRAP/) DRAPER K G.

XX Stinchcomb DT, Mcswiggen J, Draper KG;

XX WPI; 2003-340953/32.

XX Novel enzymatic nucleic acid molecules which down regulates expression of  
 PT a sequence encoding a subunit of nuclear factor kappa B useful for  
 PT treating cancer, inflammatory disorders and autoimmune diseases.

PS Claim 3; Page 29; 72pp; English.

XX The invention describes an enzymatic nucleic acid molecule (I) which down  
 CC regulates expression of a sequence encoding a subunit of nuclear factor  
 CC kappa B (NFKB), where (I) is an inozyme, zinzyme, G-cleaver or amberzyme  
 CC configuration. The enzymatic nucleic acid molecule is adapted to treat  
 CC cancer and is useful for down-regulating REL-A activity in a cell, for  
 CC treating a patient having a condition associated with the level of REL-A.  
 CC (I) is useful for cleaving RNA comprising a sequence of REL-A gene, in  
 CC the presence of a divalent cation, especially Mg<sup>2+</sup>. The enzymatic and  
 CC antisense nucleic acid molecules are useful for treating breast, lung,  
 CC prostate, colorectal, brain, oesophageal, stomach, bladder, pancreatic,  
 CC cervical, head and neck, ovarian cancer, melanoma, lymphoma, glioma or  
 CC multidrug resistant cancer. The method involves use of other drug  
 CC therapies such as monoclonal antibodies, REL-A-specific inhibitors or  
 CC chemotheraphy including paclitaxel, docetaxel, cisplatin, methotrexate,  
 CC cyclophosphamide, doxorubin, fluorouracil carboplatin, edatrexate,  
 CC gemcitabine or radiation therapy. The enzymatic and antisense nucleic  
 CC acid molecules are also useful for treating inflammatory disease such as  
 CC rheumatoid arthritis, restenosis, asthma, Crohn's disease, diabetes,  
 CC obesity, autoimmune disease, lupus, multiple sclerosis, transplant/graft  
 CC rejection, gene therapy applications, ischaemia/reperfusion injury  
 CC (central nervous system (CNS) and myocardial), glomerulonephritis,  
 CC sepsis, allergic airway inflammation, inflammatory bowel disease or  
 CC infection. This sequence represents the substrate of a novel enzymatic  
 CC nucleic acid molecule  
 XX

SQ Sequence 17 BP; 5 A; 5 C; 1 G; 0 T; 6 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;  
 Best Local Similarity 71.4%; Pred. No. 8.3e+02;

Matches 10; Conservative 4; Mismatches 0; Indels 0; Gaps 0;

QY 538 CCCATCTTGCACAA 551

DB 3 CCCAUCUUUGACAA 16

RESULT 1247

ABZ61324

ID ABZ61324 standard; RNA; 17 BP.

XX AC ABZ61324;

DT 21-MAR-2003 (first entry)

DE Human H-Ras DNzyme target #115.

XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;  
 KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;  
 KW anti-rheumatic; cancer; AIDS; ss.

XX Homo sapiens.

XX WO200297114-A2.

XX 05-DEC-2002.

XX 29-MAY-2002; 2002WO-US016940.

XX 29-MAY-2001; 2001US-0294140P.

XX 06-JUN-2001; 2001US-0296249P.

XX 10-SEP-2001; 2001US-0318471P.

XX PA (RIBO-) RIBOZYME PHARM INC.  
XX PI Mcswiggen J;  
XX DR WPI; 2003-140484/13.  
XX Novel short interfering RNA and enzymatic nucleic acid useful for  
PT treating cancer, modulates the expression of a nucleic acid encoding  
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.  
XX PS Claim 58; Page 113; 185pp; English.  
XX CC The invention relates to a novel short interfering RNA (siRNA) nucleic  
CC acid molecule or an enzymatic nucleic acid molecule, that modulates  
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,  
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic  
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-  
CC rheumatic activity. The nucleic acid molecules are useful for reducing  
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are  
CC also useful for treating breast, ovarian, colorectal, lung, prostate,  
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences  
CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,  
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human  
CC ribozymes of the invention  
XX SQ Sequence 17 BP; 2 A; 11 C; 4 G; 0 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8.3e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 103 CGCGCGCGCGCGCC 116  
DB 4 CGCGCGCGCGCGCC 17  
RESULT 1248  
ABZ62179/C  
ID ABZ62179 standard; RNA; 17 BP.  
XX AC ABZ62179;  
XX DT 21-MAR-2003 (first entry)  
XX DE Human H-Ras DNase target #970.  
XX KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;  
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;  
KW anti-rheumatic; cancer; AIDS; ss.  
XX OS Homo sapiens.  
XX PN WO200297114-A2.  
XX PD 05-DEC-2002.  
XX PF 29-MAY-2002; 2002WO-US016940.  
XX PR 29-MAY-2001; 2001US-0294140P.  
PR 06-JUN-2001; 2001US-0296249P.  
PR 10-SEP-2001; 2001US-0318471P.  
XX PA (RIBO-) RIBOZYME PHARM INC.  
XX PI Mcswiggen J;  
XX DR WPI; 2003-140484/13.  
XX Novel short interfering RNA and enzymatic nucleic acid useful for  
PT treating cancer, modulates the expression of a nucleic acid encoding  
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.  
XX

PS Claim 58; Page 131; 185pp; English.  
XX CC The invention relates to a novel short interfering RNA (siRNA) nucleic  
CC acid molecule or an enzymatic nucleic acid molecule, that modulates  
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,  
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic  
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-  
CC rheumatic activity. The nucleic acid molecules are useful for reducing  
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are  
CC also useful for treating breast, ovarian, colorectal, lung, prostate,  
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences  
CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,  
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human  
CC ribozymes of the invention  
XX SQ Sequence 17 BP; 2 A; 5 C; 4 G; 0 T; 6 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8.3e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 515 TGGAGAAGCTGACC 528  
DB 17 TGGAGAAGCTGACC 4  
RESULT 1249  
ACF62527  
ID ACF62527 standard; DNA; 17 BP.  
XX AC ACF62527;  
XX DT 08-OCT-2003 (first entry)  
XX DE Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:356.  
XX KW Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;  
KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;  
KW cytostatic; PCR primer; ss.  
XX OS Synthetic.  
XX PN WO2003013534-A2.  
XX PD 20-FEB-2003.  
XX PF 23-JUL-2002; 2002WO-EP008219.  
XX PR 23-JUL-2001; 2001EP-00117608.  
PR 24-MAY-2002; 2002EP-00011710.  
XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.  
XX PI Heinrich G, Kerb R;  
XX DR WPI; 2003-268144/26.  
XX PT New use of irinotecan for preparation of compositions for treating cancer  
PT in subject having genome with variant allele comprising cytochrome p450,  
PT subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.  
XX PS Disclosure; Page 42; 86pp; English.  
XX CC The present invention describes the use of irinotecan (I) or its  
CC derivative for the preparation of a pharmaceutical composition for  
CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
CC cancer, or malignant glioma in a subject having a genome with a variant  
CC allele which comprises a cytochrome p450, subfamily IIIA (nifedipine  
CC oxidase), polypeptide 5 (CYP3A5) polynucleotide (ii). (i) and (ii) have  
CC cytostatic activity. The therapeutic applications of (i) is improved,  
CC since it is possible to individually treat a subject with an appropriate  
CC dosage and/or an appropriate derivative of (i). Therefore, undesirable,  
CC harmful or toxic effects are efficiently avoided. Unnecessary and

CC potentially harmful treatment of those subjects who do not respond to the  
 CC treatment with substances (nonresponders), as well as the development of  
 CC drug resistances due to suboptimal drug dosing can be avoided. ACF62200  
 CC to ACF62751 and ABM34912 to ABM35013 represent sequences used in the  
 CC exemplification of the present invention

XX SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;  
 Best Local Similarity 87.5%; Pred. No. 8.3e+02;  
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 52 GCAGTGTGACTGCTGA 67  
 ||| |||:|||||||  
 Db 2 GCAATGTRACTGCTGA 17

RESULT 1250  
 ADB21198  
 ID ADB21198 standard; DNA; 17 BP.  
 XX AC ADB21198;  
 XX DT 20-NOV-2003 (first entry)

DE MRP1 based cancer related nucleic acid SEQ ID NO:356.

KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
 KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
 KW variant allele; multidrug resistance protein 1; MRP1; cytosolic; gene;  
 KW ds.

OS Unidentified.

XX WO2003013533-A2.

XX 20-FEB-2003.

XX 23-JUL-2002; 2002WO-EP008200.

XX 23-JUL-2001; 2001EP-00117608.

XX 24-MAY-2002; 2002EP-00011710.

XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX Heinrich G, Kerb R;

XX WPI; 2003-354397/33.

XX Use of irinotecan or its derivative for preparation of a pharmaceutical  
 PT composition for treating cancer in a subject having a genome with a  
 PT variant allele comprising a multidrug resistance protein 1  
 PT polynucleotide.

XX Disclosure; Page 51; 100pp; English.

XX The present invention describes a method for the use of irinotecan (I) or  
 CC its derivative for the preparation of a pharmaceutical composition for  
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
 CC cancer, or malignant glioma in a subject having a genome with a variant  
 CC allele which comprises a multidrug resistance protein 1 (MRP1)  
 CC polynucleotide (II). (I) has cytostatic activity. (I) or its derivative  
 CC can be used for the preparation of a pharmaceutical composition for  
 CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
 CC cancer, or malignant glioma in a subject, where the subject is a human  
 CC (preferably African or Asian) or a mouse. The present sequence represents  
 CC a sequence which is used in the exemplification of the present invention.

XX SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;  
 Best Local Similarity 87.5%; Pred. No. 8.3e+02;  
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 52 GCAGTGTGACTGCTGA 67  
 ||| |||:|||||||  
 Db 2 GCAATGTRACTGCTGA 17

RESULT 1251

ADB88287

ID ADB88287 standard; DNA; 17 BP.

XX AC ADB88287;

XX DT 04-DEC-2003 (first entry)

XX Human UGT1A1 variant allele sequence fragment SEQ ID NO:328.

KW ss; irinotecan; cancer; UGT1A1; cytostatic; topoisomerase I inhibitor;  
 KW colorectal cancer; cervical cancer; gastric cancer; lung cancer;  
 KW ovarian cancer; pancreatic cancer; malignant glioma;  
 KW uridine diphosphate glycosyltransferase1 member A1.

XX OS Homo sapiens.

XX WO2003013536-A2.

XX 20-FEB-2003.

XX 23-JUL-2002; 2002WO-EP008217.

XX 23-JUL-2001; 2001EP-00117608.

XX 24-MAY-2002; 2002EP-00011710.

XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX Heinrich G, Kerb R;

XX WPI; 2003-289896/28.

XX Use of irinotecan to treat cancer patient by determining if patient has  
 PT variant alleles of UGT1A1 gene, administering increased/decreased amounts  
 PT of irinotecan based on increased/decreased levels of UGT1A1 gene product.

XX Disclosure; Page 55; 107pp; English.

XX The invention relates to the novel use of irinotecan to treat a patient  
 CC suffering from cancer. This involves determining if the patient has one  
 CC or more variant alleles of the UGT1A1 gene, and if the patient has one or  
 CC more of such variant alleles, irinotecan is administered in an increased  
 CC or decreased amount in comparison to the amount that is administered  
 CC without regard to the patient's alleles in the UGT1A1 gene. The invention  
 CC has cytostatic activity. A composition of the invention acts as a  
 CC topoisomerase I inhibitor. The method is useful for treating a patient,  
 CC an animal e.g. mouse or a human, preferably African or Asian, suffering  
 CC from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,  
 CC pancreatic cancer or malignant glioma. The present sequence is used in  
 CC the exemplification of the invention.

XX SQ Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;  
 Best Local Similarity 87.5%; Pred. No. 8.3e+02;  
 Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

Qy 52 GCAGTGTGACTGCTGA 67  
 ||| |||:|||||||  
 Db 2 GCAATGTRACTGCTGA 17

RESULT 1252

ADB97270

ID ADB97270 standard; DNA; 17 BP.

XX AC ADB97270;

```

XX 04-DEC-2003 (first entry)
DT Human MDR1 variant allele sequence fragment SEQ ID NO:356.
DE
DE irinotecan; colorectal cancer; cervical cancer; gastric cancer;
KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
KW multidrug resistance 1; MDR1; cytostatic; human; ds; CYP3A5; MRP1; MDR1;
KW TOP1.
XX
XX Homo sapiens.
OS
XX WO2003013537-A2.
PN
XX
XX 20-FEB-2003.
PD
XX
XX 23-JUL-2002; 2002WO-EP008218.
PF
XX
XX 23-JUL-2001; 2001EP-00117608.
PR
XX 24-MAY-2002; 2002EP-00011710.
PR
XX (EPID-) EPIDAURUS BIOTECHNOLOGIE AG.
XX
XX Heinrich G, Kerb R;
PI
XX WPI; 2003-268145/26.
XX
XX New use of irinotecan for preparation of pharmaceutical compositions for
PT treating cancer in subject having genome with variant allele comprising
PT multidrug resistance 1 polynucleotide.
XX
XX Disclosure; Page 79; 130pp; English.
XX
XX The invention relates to the novel use of irinotecan or its derivative
CC for the preparation of pharmaceutical compositions for treating
CC colorectal, cervical, gastric, lung, ovarian or pancreatic cancer, or
CC malignant glioma in a subject having a genome with a variant allele which
CC comprises a multidrug resistance 1 (MDR1) polynucleotide. A composition
CC of the invention has cytostatic activity. The invention is useful for the
CC preparation of pharmaceutical compositions for treating colorectal,
CC cervical, gastric, lung, ovarian or pancreatic cancer, or malignant
CC glioma in a subject (preferably human, more preferably African or Asian)
CC or a mouse. The present sequence is used in the exemplification of the
CC invention.
XX
XX Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;
SQ
XX
XX Query Match 0.8%; Score 14; DB 1; Length 17;
XX Best Local Similarity 87.5%; Pred. No. 8.3e+02;
XX Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 52 GCAGTGTGACTGCTGA 67
XX ||| |||:|||||
XX Db 2 GCAATGTRACTGCTGA 17
XX
XX RESULT 1253
XX ADB92461
XX ID ADB92461 standard; DNA; 17 BP.
XX
XX AC ADB92461;
XX
XX 04-DEC-2003 (first entry)
DT
XX
XX Human MDR1 variant allele sequence fragment SEQ ID NO:356.
DE
XX irinotecan; colorectal cancer; cervical cancer; gastric cancer;
KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
KW multidrug resistance 1; MDR1; cytostatic; ds; human; UGT1A1; MRP1; TOP1.
XX
XX Homo sapiens.
OS
XX WO2003013535-A2.
PN

```

```

XX 20-FEB-2003.
PD
XX
XX 23-JUL-2002; 2002WO-EP008220.
PF
XX
XX 23-JUL-2001; 2001EP-00117608.
PR
XX 24-MAY-2002; 2002EP-00011710.
PR
XX (EPID-) EPIDAURUS BIOTECHNOLOGIE AG.
XX
XX Heinrich G, Kerb R;
PI
XX WPI; 2003-342400/32.
XX
XX New use of irinotecan for preparation of pharmaceutical compositions for
PT treating cancer in subject having genome with variant allele comprising
PT multidrug resistance 1 polynucleotide.
XX
XX Disclosure; Page 50; 104pp; English.
XX
XX The invention relates to a novel use of irinotecan or its derivative for
CC the preparation of a pharmaceutical composition for treating colorectal,
CC cervical, gastric, lung, ovarian or pancreatic cancer, or malignant
CC glioma in a subject having a genome with a variant allele which comprises
CC a multidrug resistance 1 (MDR1) polynucleotide. A composition of the
CC invention has cytostatic activity. The present sequence is used in the
CC exemplification of the invention.
XX
XX Sequence 17 BP; 4 A; 3 C; 4 G; 5 T; 0 U; 1 Other;
SQ
XX
XX Query Match 0.8%; Score 14; DB 1; Length 17;
XX Best Local Similarity 87.5%; Pred. No. 8.3e+02;
XX Matches 14; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
XX
XX QY 52 GCAGTGTGACTGCTGA 67
XX ||| |||:|||||
XX Db 2 GCAATGTRACTGCTGA 17
XX
XX RESULT 1254
XX ADM53798/c
XX ID ADM53798 standard; mRNA; 17 BP.
XX
XX AC ADM53798;
XX
XX 03-JUN-2004 (first entry)
DT
XX
XX Human GRID mRNA substrate sequence #73.
XX
XX Human; gs; GRID; Grb2-related with insert domain; hammerhead ribozyme;
KW NCH ribozyme; G-cleaver ribozyme; Zinzyme; DNazyme; amberyzyme; Inozyme;
KW hairpin ribozyme; tissue rejection; graft rejection; leukaemia.
XX
XX Homo sapiens.
OS
XX US2003134806-A1.
XX
XX 17-JUL-2003.
PD
XX
XX 23-FEB-2001; 2001US-00792818.
PF
XX
XX 10-FEB-2000; 2000US-0181594P.
PR
XX (JARV/) JARVIS T.
XX (CARL/) CARLOWITZ I V.
XX (MCSW/) MCSWIGGEN J.
XX (HAMB/) HAMBLIN P A.
XX (ELLI/) ELLIS J H.
XX
XX Jarvis T, Carlowitz IV, Mcswiggen J, Hamblin PA, Ellis JH;
PI WPI; 2003-829646/77.
XX
XX
XX

```

PT New nucleic acid molecule that down-regulates expression of Grb2-related  
PT with insert domain (GRID) gene, useful for treating a condition  
PT associated with the level of GRID, e.g. tissue/graft rejection and  
PT leukemia.

PS Claim 4; SEQ ID NO 73; 74pp; English.

XX

CC The invention relates to a nucleic acid molecule that down-regulates  
CC expression of Grb2-related with insert domain (GRID) gene, e.g. a  
CC hammerhead ribozyme, NCH ribozyme, G-cleaver ribozyme, Zinzyme, DNzyme,  
CC amberzyme, Inozyme or hairpin ribozyme. Also include are a mammalian cell  
CC including the novel nucleic acid molecule, reducing GRID activity in a  
CC cell by contacting the cell with the novel nucleic acid molecule,  
CC treating a patient having a condition associated with the level of GRID  
CC (e.g. tissue/graft rejection or leukaemia) by contacting the cell with  
CC the novel nucleic acid molecule, cleaving RNA of a GRID gene by  
CC contacting the cell with the novel nucleic acid molecule, an expression  
CC vector comprising a nucleic acid sequences (encoding at least the novel  
CC nucleic acid molecule in a manner that allows its expression), a  
CC mammalian cell including the expression vector and an enzymatic nucleic  
CC acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid  
CC molecule is useful for treating a condition associated with the level of  
CC GRID, e.g. tissue/graft rejection and leukaemia. The present sequence is  
CC a target region for the enzymatic nucleic acids of the invention.

XX

SEQ Sequence 17 BP; 5 A; 6 C; 1 G; 0 T; 5 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8.3e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 598 TTGGGAAACTGGA 611  
|||||  
DB 16 TTGGGAAACTGGA 3

RESULT 1255  
ADM53799/c

ID ADM53799 standard; mRNA; 17 BP.

XX

AC ADM53799;

XX

DT 03-JUN-2004 (first entry)

XX

DE Human GRID mRNA substrate sequence #74.

XX

Human; ss; GRID; Grb2-related with insert domain; hammerhead ribozyme;  
NCH ribozyme; G-cleaver ribozyme; Zinzyme; DNzyme; amberzyme; Inozyme;  
hairpin ribozyme; tissue rejection; graft rejection; leukaemia.

XX

OS Homo sapiens.

XX

US2003134806-A1.

XX

PD 17-JUL-2003.

XX

PF 23-FEB-2001; 2001US-00792818.

XX

PR 10-FEB-2000; 2000US-0181594P.

XX

PA (JARV/) JARVIS T.  
(CARL/) CARLOWITZ I V.  
(MCSW/) MCSWIGGEN J.  
(HAMB/) HAMBLIN P A.  
(ELLI/) ELLIS J H.

XX

PI Jarvis T, Carlowitz IV, Mcswiggen J, Hamblin PA, Ellis JH;  
WPI; 2003-829646/77.

XX

PT New nucleic acid molecule that down-regulates expression of Grb2-related  
PT with insert domain (GRID) gene, useful for treating a condition  
PT associated with the level of GRID, e.g. tissue/graft rejection and  
PT leukemia.

PT leukemia.

XX

PS Claim 4; SEQ ID NO 74; 74pp; English.

XX

CC The invention relates to a nucleic acid molecule that down-regulates  
CC expression of Grb2-related with insert domain (GRID) gene, e.g. a  
CC hammerhead ribozyme, NCH ribozyme, G-cleaver ribozyme, Zinzyme, DNzyme,  
CC amberzyme, Inozyme or hairpin ribozyme. Also include are a mammalian cell  
CC including the novel nucleic acid molecule, reducing GRID activity in a  
CC cell by contacting the cell with the novel nucleic acid molecule,  
CC treating a patient having a condition associated with the level of GRID  
CC (e.g. tissue/graft rejection or leukaemia) by contacting the cell with  
CC the novel nucleic acid molecule, cleaving RNA of a GRID gene by  
CC contacting the cell with the novel nucleic acid molecule, an expression  
CC vector comprising a nucleic acid sequences (encoding at least the novel  
CC nucleic acid molecule in a manner that allows its expression), a  
CC mammalian cell including the expression vector and an enzymatic nucleic  
CC acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid  
CC molecule is useful for treating a condition associated with the level of  
CC GRID, e.g. tissue/graft rejection and leukaemia. The present sequence is  
CC a target region for the enzymatic nucleic acids of the invention.

XX

SEQ Sequence 17 BP; 5 A; 5 C; 2 G; 0 T; 5 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 17;  
Best Local Similarity 100.0%; Pred. No. 8.3e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 598 TTGGGAAACTGGA 611  
|||||  
DB 15 TTGGGAAACTGGA 2

RESULT 1256  
ADM53800/c

ID ADM53800 standard; mRNA; 17 BP.

XX

AC ADM53800;

XX

DT 03-JUN-2004 (first entry)

XX

DE Human GRID mRNA substrate sequence #75.

XX

Human; ss; GRID; Grb2-related with insert domain; hammerhead ribozyme;  
NCH ribozyme; G-cleaver ribozyme; Zinzyme; DNzyme; amberzyme; Inozyme;  
hairpin ribozyme; tissue rejection; graft rejection; leukaemia.

XX

OS Homo sapiens.

XX

US2003134806-A1.

XX

PD 17-JUL-2003.

XX

PF 23-FEB-2001; 2001US-00792818.

XX

PR 10-FEB-2000; 2000US-0181594P.

XX

PA (JARV/) JARVIS T.  
(CARL/) CARLOWITZ I V.  
(MCSW/) MCSWIGGEN J.  
(HAMB/) HAMBLIN P A.  
(ELLI/) ELLIS J H.

XX

PI Jarvis T, Carlowitz IV, Mcswiggen J, Hamblin PA, Ellis JH;  
WPI; 2003-829646/77.

XX

PT New nucleic acid molecule that down-regulates expression of Grb2-related  
PT with insert domain (GRID) gene, useful for treating a condition  
PT associated with the level of GRID, e.g. tissue/graft rejection and  
PT leukemia.

XX

PS Claim 4; SEQ ID NO 75; 74pp; English.

XX The invention relates to a nucleic acid molecule that down-regulates  
 CC expression of Grb2-related with insert domain (GRID) gene, e.g. a  
 CC hammerhead ribozyme, NCH ribozyme, G-cleaver ribozyme, Zinzyme, DNazyme,  
 CC amberzyme, Inozyme or hairpin ribozyme. Also include are a mammalian cell  
 CC including the novel nucleic acid molecule, reducing GRID activity in a  
 CC cell by contacting the cell with the novel nucleic acid molecule,  
 CC treating a patient having a condition associated with the level of GRID  
 CC (e.g. tissue/graft rejection or leukaemia) by contacting the cell with  
 CC the novel nucleic acid molecule, cleaving RNA of a GRID gene by  
 CC contacting the cell with the novel nucleic acid molecule, an expression  
 CC vector comprising a nucleic acid sequences (encoding at least the novel  
 CC nucleic acid molecule in a manner that allows its expression), a  
 CC mammalian cell including the expression vector and an enzymatic nucleic  
 CC acid molecule that cleaves RNA derived from a GRID gene. The nucleic acid  
 CC molecule is useful for treating a condition associated with the level of  
 CC GRID, e.g. tissue/graft rejection and leukaemia. The present sequence is  
 CC a target region for the enzymatic nucleic acids of the invention.

XX Sequence 17 BP; 4 A; 5 C; 3 G; 0 T; 5 U; 0 Other;  
 SQ

Query Match 0.8%; Score 14; DB 1; Length 17;  
 Best Local Similarity 100.0%; Pred. No. 8.3e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 598 TTTGGAAACTGGA 611  
 DB 14 TTTGGAAACTGGA 1

RESULT 1257  
 AAX71742  
 ID AAX71742 standard; RNA; 18 BP.  
 AC AAX71742;  
 XX  
 XX 28-JUL-1999 (first entry)  
 DT  
 DE Human KDR VEGF receptor hairpin ribozyme substrate #40.  
 XX  
 KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
 KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
 KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
 KW fms-like tyrosine kinase 1; Kinase insert domain containing receptor;  
 KW foetal liver kinase 1; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WC9715662-A2.  
 XX  
 XX 01-MAY-1997.  
 XX  
 XX 25-OCT-1996; 96WO-US017480.  
 XX  
 XX 26-OCT-1995; 95US-0005974P.  
 XX  
 XX 11-JAN-1996; 96US-00584040.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 PA  
 PA (CHIR ) CHIRON CORP.  
 XX  
 XX Pavco P, Meswigen J, Stinchcomb D, Escobedo J;  
 XX  
 XX WPI; 1997-259017/23.  
 XX  
 XX Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
 PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
 PT rheumatoid arthritis, etc., in a human patient.  
 XX  
 XX Claim 4; Page 120; 218pp; English.  
 PS  
 XX The present invention describes nucleic acid molecules which modulate the  
 CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
 CC receptors of vascular endothelial growth factor (VEGF). A patient

CC (preferably human) having a condition associated with the level of the  
 CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
 CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
 CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
 CC treated by administering the nucleic acid molecule or the expression  
 CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
 CC of nucleic acid molecules from the present invention  
 XX  
 SQ Sequence 18 BP; 2 A; 9 C; 1 G; 0 T; 6 U; 0 Other;  
 Query Match 0.8%; Score 14; DB 1; Length 18;  
 Best Local Similarity 64.3%; Pred. No. 8.7e+02;  
 Matches 9; Conservative 5; Mismatches 0; Indels 0; Gaps 0;

QY 1701 CTCCTGCTACTCT 1714  
 DB 2 CUCUCUGCCUACCU 15

RESULT 1258  
 AAZ41054  
 ID AAZ41054 standard; DNA; 18 BP.  
 XX  
 AC AAZ41054;  
 XX  
 XX 26-JAN-2000 (first entry)  
 DT  
 DE Human ELK-1 phosphorothioate antisense oligonucleotide SEQ ID NO:206.  
 XX  
 KW Identification; genetic target; gene modulation; human; probe;  
 KW antisense oligonucleotide; phosphorothioate; PCR primer;  
 KW nucleotide sequence-based technology; antisense drug discovery;  
 KW target validation; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 XX WO9953101-A1.  
 XX  
 XX 21-OCT-1999.  
 XX  
 XX 13-APR-1999; 99WO-US008268.  
 XX  
 XX 13-APR-1998; 98US-0081483P.  
 XX  
 XX 28-APR-1998; 98US-00067638.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX Cowsett IM, Baker BF, Mcneil J, Freier SM, Sasnor HM, Brooks DG;  
 PI Ohasi C, Wyatt JR, Borchers AH, Vickers TA;  
 XX  
 XX WPI; 1999-620446/53.  
 DR  
 XX Identifying compounds which modulate expression of nucleic acids, used to  
 PT provide compounds having defined physical, chemical or bioactive  
 PT properties, e.g. antisense activity.  
 XX  
 XX Example 24; Page 104; 264pp; English.  
 PS  
 XX A method has been developed of defining a set of compounds that modulate  
 CC the expression of a target nucleic acid (tNA) sequence via binding of the  
 CC compounds with the tNA sequence. The method comprises generating a  
 CC library of virtual compounds in silico according to defined criteria, and  
 CC evaluating in silico the binding of the virtual compounds with the tNA  
 CC according to defined criteria. Also described are: (1) a method of  
 CC defining a set of oligonucleotides (ONs) that modulate the expression of  
 CC a tNA sequence via binding of the ONs with the tNA sequence comprising  
 CC generating a library of virtual compounds in silico according to defined  
 CC criteria, and evaluating in silico the binding of the virtual ONs with  
 CC the tNA according to defined criteria; and (2) a method of defining a set  
 CC of compounds that modulate the expression of a tNA sequence via binding  
 CC of the compounds with the tNA. The methods can be used for the generation  
 CC and identification of synthetic compounds having defined physical,

CC chemical or bioactive properties. Information gathered from assays of  
 CC such compounds is used to identify nucleic acid sequences that are  
 CC tractable to a variety of nucleotide sequence-based technologies, e.g.  
 CC antisense drug discovery and target validation. AAZ06571 to AAZ41220, and  
 CC AA52701 to AA52706, represent sequences used in the exemplification of  
 CC the present invention

XX Sequence 18 BP; 0 A; 2 C; 12 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 18;

Best Local Similarity 100.0%; Pred. No. 8.7e+02; Mismatches 0; Indels 0; Gaps 0;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 232 GGTGGTGGTGGCGG 245

Db 1 GGTGGTGGTGGCGG 14

RESULT 1259

AAZ06571

ID AAZ06571 standard; DNA; 18 BP.

XX AC AAZ06571;

DT 23-NOV-1999 (first entry)

XX DE ELK-1 expression modulator #9.

XX KW Human ELK-1; p62TCF; Ets domain transcription factor protein; apoptosis;  
 KW expression inhibition; infection; inflammation; tumour formation;  
 KW diagnosis; phosphorothioate; antisense compound; ss.

XX OS Synthetic.

XX FH Key Location/Qualifiers

FT modified\_base 1..18

FT /tag= a

FT /note= "Internucleoside phosphorothioate linkages"

FT modified\_base 1..4

FT /tag= b

FT /note= "Optionally 2-methoxyethyl (2'-MOE) nucleosides

FT except cytosine residues which are 5-methylcytosine"

FT modified\_base 15..18

FT /tag= c

FT /note= "Optionally 2-methoxyethyl (2'-MOE) nucleosides

FT except cytosine residues which are 5-methylcytosine"

PN US5948680-A.

XX 07-SEP-1999.

XX 17-DEC-1998; 98US-00213767.

XX 17-DEC-1998; 98US-00213767.

XX (ISIS-) ISIS PHARM INC.

XX Baker BF, Cowser LM;

XX WPI; 1999-517959/43.

XX Antisense compound useful for diagnosis, treatment and prevention of

XX disease associated with ELK-1 expression.

XX Claim 3; Col 38; 31pp; English.

CC Sequences AAZ06571-Z06607 are antisense polynucleotides targeted to a  
 CC nucleic acid molecule encoding human ELK-1 (also known as p62TCF). ELK-1  
 CC is a member of the ternary complex factor subfamily of Ets-domain  
 CC transcription factor proteins. The polynucleotides inhibit the expression  
 CC of human ELK-1, and this sequence targets the 5' untranslated region of  
 CC the ELK-1 RNA. Sequences AAZ06571-Z06607 all cause at least 30%  
 CC inhibition of ELK-1 expression. The antisense sequences can be used to

CC inhibit the expression of human ELK-1 in human cells or tissues in vitro.  
 CC ELK-1 uses a bipartite recognition mechanism mediated by both protein-DNA  
 CC and protein-protein interactions to regulate genes by direct and indirect  
 CC DNA binding and has been shown to control various signal transduction  
 CC pathways and other cell functions including apoptosis. This means that  
 CC antisense compounds inhibiting expression of ELK-1 can be used to treat  
 CC diseases associated with its expression in animals, particularly humans  
 CC and to prevent or delay infection, inflammation or tumour formation. The  
 CC compounds can also be used for diagnosis, as research reagents and in  
 CC kits

XX Sequence 18 BP; 0 A; 2 C; 12 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 18;

Best Local Similarity 100.0%; Pred. No. 8.7e+02;

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 232 GGTGGTGGTGGCGG 245

Db 1 GGTGGTGGTGGCGG 14

RESULT 1260

ABA99961

ID ABA99961 standard; DNA; 18 BP.

XX AC ABA99961;

XX DT 05-JUL-2002 (first entry)

XX DE Human ELK-1 PCR primer #2.

XX KW Human; cytosine methylation; 5'-QpG-3'; uracil; cytosine; diagnosis;  
 KW drug; side effect; cancer; central nervous system; cardiovascular;  
 KW gastrointestinal; respiratory system; single nucleotide polymorphism;  
 KW SNP; cell differentiation; ELK-1; PCR; primer; ss.

XX OS Homo sapiens.

XX PN WO200218632-A2.

XX PD 07-MAR-2002.

XX PF 01-SEP-2001; 2001WO-EP010074.

XX PR 01-SEP-2000; 2000DE-01043826.

XX PR 05-SEP-2000; 2000DE-01044543.

XX PA (EPIG-) EPIGENOMICS AG.

XX PI Olek A, Piepenbrock C, Berlin K, Guetig D;

XX WPI; 2002-371829/40.

XX Determining the degree of cytosine methylation in genomic DNA, useful for  
 XX diagnosis and prognosis, comprises selective hybridization of amplicons  
 XX from chemically treated DNA.

XX Example 1; Page 33; 56pp; German.

CC This invention describes a novel method for determining the degree of  
 CC methylation of a particular cytosine in a motif 5'-CpG-3', present in a  
 CC genomic sample of DNA. The sample is treated chemically to convert  
 CC cytosine (C) but not methylated C, to uracil, then part of the genomic  
 CC DNA that contains the target C is amplified to form a labeled amplicon.  
 CC The amplicon is hybridised to two classes, each with at least one member,  
 CC of oligonucleotides and/or peptide-nucleic acid (PNA) oligomers and the  
 CC degree of hybridisation to both classes is determined from the label on  
 CC the amplicon. From the ratio of labels hybridised to the two classes of  
 CC oligomers, the degree of methylation is calculated. The method is used:  
 CC (i) for diagnosis and/or prognosis of side effects of therapeutic drugs  
 CC and of a wide range of diseases, e.g. cancer, disorders of the central  
 CC nervous, cardiovascular, gastrointestinal and respiratory systems etc.,

CC particularly by detecting mutations or single nucleotide polymorphisms  
CC (SNP's); and (ii) for differentiation of cell or tissue types and for  
CC investigating cell differentiation. The method allows the methylation  
CC status of many C residues to be determined simultaneously. This sequence  
CC represents a PCR primer used in the amplification of the human ELK-1 gene  
CC used in the method of the invention

XX Sequence 18 BP; 1 A; 1 C; 12 G; 4 T; 0 U; 0 Other;  
SQ Query Match 0.8%; Score 14; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 8.7e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 232 GGTGGTGGTGGCGG 245  
DB 2 GGTGGTGGTGGCGG 15

## RESULT 1261

AAF8946  
ID AAF8946 standard; DNA; 18 BP.

AC AAF8946;

XX 20-JAN-2003 (first entry)

DT Human ELK-1 PCR primer SEQ ID 2.

XX Human; cytosine methylation; methylation status; CpG; infection; cancer;  
KW diagnosis; side-effect; cardiovascular disease; gastrointestinal disease;  
KW inflammation; cell differentiation; ELK-1; PCR; primer; ss.

XX Homo sapiens.

XX WO200272880-A2.

XX 19-SEP-2002.

XX 08-MAR-2002; 2002WO-EP002572.

XX 09-MAR-2001; 2001DE-01012515.

XX 19-NOV-2001; 2001DE-01058283.

XX (BPIG-) EPIGENOMICS AG.

XX Olek A, Berlin K;

XX WPI; 2002-723373/78.

XX Detecting methylation status of test DNA in a mixture, useful for  
PT diagnosis and prognosis of disease, comprises bisulfite treatment then  
PT selective amplification of test DNA.

XX Example 4; Page 43; 82pp; German.

XX This invention describes a novel method for detecting cytosine  
CC methylation in DNA samples by: (i) chemically treating a genomic sample  
CC to convert all non-methylated cytosines to uracil while leaving  
CC methylated cytosines unchanged; (ii) amplification with 2 primer  
CC oligonucleotides and a polymerase; and (iii) analysis of the amplicon and  
CC deducing the methylation status of test DNA. The method is used for  
CC determining the methylation status at different CpG positions, which is  
CC used for diagnosis and/or prognosis of a very wide range of disorders,  
CC e.g. side-effects of pharmaceuticals, cancer, cardiovascular or  
CC gastrointestinal diseases, infections, inflammation, etc. The method is  
CC also useful for differentiating between cell and tissue types and for  
CC investigating cell differentiation. The method: (i) provides a  
CC quantitative indication of the different methylated positions, and thus a  
CC very accurate classification; and (ii) eliminates interference from  
CC background DNA, making it suitable for analysis of serum or body fluids  
CC (which contain background DNA in large excess). This sequence represents  
CC a PCR primer used to amplify the human ELK-1 gene, described in the  
CC disclosure of the invention

XX Sequence 18 BP; 1 A; 1 C; 12 G; 4 T; 0 U; 0 Other;  
SQ Query Match 0.8%; Score 14; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 8.7e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 232 GGTGGTGGTGGCGG 245  
DB 2 GGTGGTGGTGGCGG 15

## RESULT 1262

ADC70281  
ID ADC70281 standard; DNA; 18 BP.

XX ADC70281;

XX 18-DEC-2003 (first entry)

XX Primer oligo used for analysing CpG islands in genomic DNA (SeqID 771).

XX PCR; primer; ss; lung cell proliferative disorder; CpG dinucleotide;  
KW adenocarcinoma; squamous cell carcinoma; cytostatic; probe; PNA-oligomer;  
KW cytosine methylation state.

XX Unidentified.

XX WO2003052135-A2.

XX 26-JUN-2003.

XX 10-DEC-2002; 2002WO-EP014026.

XX 14-DEC-2001; 2001DE-01061625.

XX (BPIG-) EPIGENOMICS AG.

XX Burger M, Field JK, Genc B, Liloglou T, Lipscher E, Maier S;  
PI Nimmrlich I;

XX WPI; 2003-533029/50.

XX Detecting and differentiating cytosine methylation state of genomic DNA,  
PT useful for diagnosing, treating prognosticating and/or monitoring lung  
PT cell proliferative disorders e.g. adenocarcinoma and squamous cell  
PT carcinoma.

XX Claim 15; SEQ ID NO 771; 58pp; English.

XX This invention relates to a novel method for detecting and  
CC differentiating between lung cell proliferative disorders associated with  
CC at least one gene and/or their regulatory regions. Specifically, it  
CC refers to a method comprising contacting a target nucleic acid in a  
CC biological sample with at least one reagent, wherein the reagent is able  
CC to distinguish between methylated and non-methylated CpG dinucleotides  
CC present in the target DNA. As such, it is possible to further  
CC differentiate and diagnose medical conditions including adenocarcinoma  
CC and squamous cell carcinoma, and their respective adjacent lung tissue.  
CC The present invention describes cytosine oligomers and PNA-oligomers.  
CC That are useful as probes for determining the cytosine methylation state  
CC or single nucleotide polymorphisms (SNPs) of the target sequence. This  
CC oligonucleotide sequence is a primer oligomer used for the analysis of  
CC CpG positions within genomic DNA, used in an exemplification of the  
CC invention.

XX Sequence 18 BP; 3 A; 0 C; 10 G; 5 T; 0 U; 0 Other;

XX Query Match 0.8%; Score 14; DB 1; Length 18;  
Best Local Similarity 100.0%; Pred. No. 8.7e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1156 ATGTGGGTGTGGG 1169



```
Db      1  ATGTGGGTGTGGG 14
|||||
RESULT 1263
AAZ43839
ID  AAZ43839 standard; DNA; 19 BP.
XX
AC  AAZ43839;
XX
DT  10-MAR-2000 (first entry)
XX
DE  Human adult thymus cDNA clone vhl_1 DNA probe.
XX
KW  Human; secreted protein; treatment; nutritional activity; cytokine;
KW  cell proliferation; cell differentiation; hematopoiesis regulation;
KW  tissue growth; activin; inhibin; chemotactic; chemokinetic; hemostatic;
KW  thrombolytic; anti-inflammatory; invasion suppressor; tumor inhibition;
KW  gene therapy; ss.
XX
OS  Synthetic.
OS  Homo sapiens.
XX
FN  WO9955721-A1.
XX
PD  04-NOV-1999.
XX
PF  23-APR-1999; 99WO-US008504.
XX
PR  24-APR-1998; 98US-0082904P.
PR  11-JUN-1998; 98US-0088994P.
PR  12-JUN-1998; 98US-0089278P.
PR  02-JUL-1998; 98US-0091647P.
PR  24-AUG-1998; 98US-0097639P.
PR  22-APR-1999; 99US-00097639.
XX
FA  (ALPH-) ALPHAGENE INC.
XX
PI  Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;
XX  WPI; 2000-052801/04.
XX
PT  New polynucleotides encoding secreted human proteins, derived from human
PT  fetal brain, adult skin, adult brain, adult heart, adult thymus and adult
PT  aorta cDNA libraries.
XX
PS  Disclosure; Page 270; 282pp; English.
XX
CC  This invention describes novel human secreted proteins which are encoded
CC  by polynucleotides obtained from fetal brain, adult skin, adult brain,
CC  adult heart, adult thymus and adult aorta cDNA libraries. The
CC  polynucleotides and proteins are predicted to have biological activities
CC  which would make them suitable for treating, preventing or ameliorating
CC  medical conditions in humans and animals, although no supporting data is
CC  given. Suggested activities include nutritional activity, cytokine and
CC  cell proliferation/differentiation activity, immune stimulating (e.g. as
CC  vaccines) or suppressing activity, hematopoiesis regulating activity,
CC  tissue growth activity, activin/inhibin activity,
CC  chemotactic/chemokinetic activity, hemostatic and thrombolytic activity,
CC  receptor/ligand activity, anti-inflammatory activity, cadherin/tumor
CC  invasion suppressor activity, and tumor inhibition activity. The
CC  polynucleotides are also stated to be useful for gene therapy. AAZ43809-
CC  243840 represent DNA probes used to isolate the polynucleotides
CC  represented in AAZ43777-243808 which encode the secreted proteins
CC  represented in AAY50905-Y50947
XX
SQ  Sequence 19 BP; 6 A; 1 C; 10 G; 2 T; 0 U; 0 Other;
Query Match 0.8%; Score 14; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      34  AGGTAGGCAGGAGG 47
|||||
RESULT 1264
AAZ43839
ID  AAZ43839 standard; DNA; 19 BP.
XX
AC  AAZ43839;
XX
DT  10-MAR-2000 (first entry)
XX
DE  Human adult thymus cDNA clone vhl_1 DNA probe.
XX
KW  Human; secreted protein; treatment; nutritional activity; cytokine;
KW  cell proliferation; cell differentiation; hematopoiesis regulation;
KW  tissue growth; activin; inhibin; chemotactic; chemokinetic; hemostatic;
KW  thrombolytic; anti-inflammatory; invasion suppressor; tumor inhibition;
KW  gene therapy; ss.
XX
OS  Synthetic.
OS  Homo sapiens.
XX
FN  WO9955721-A1.
XX
PD  04-NOV-1999.
XX
PF  23-APR-1999; 99WO-US008504.
XX
PR  24-APR-1998; 98US-0082904P.
PR  11-JUN-1998; 98US-0088994P.
PR  12-JUN-1998; 98US-0089278P.
PR  02-JUL-1998; 98US-0091647P.
PR  24-AUG-1998; 98US-0097639P.
PR  22-APR-1999; 99US-00097639.
XX
FA  (ALPH-) ALPHAGENE INC.
XX
PI  Valenzuela D, Yuan O, Hoffman H, Hall J, Rapiejko P;
XX  WPI; 2000-052801/04.
XX
PT  New polynucleotides encoding secreted human proteins, derived from human
PT  fetal brain, adult skin, adult brain, adult heart, adult thymus and adult
PT  aorta cDNA libraries.
XX
PS  Disclosure; Page 270; 282pp; English.
XX
CC  This invention describes novel human secreted proteins which are encoded
CC  by polynucleotides obtained from fetal brain, adult skin, adult brain,
CC  adult heart, adult thymus and adult aorta cDNA libraries. The
CC  polynucleotides and proteins are predicted to have biological activities
CC  which would make them suitable for treating, preventing or ameliorating
CC  medical conditions in humans and animals, although no supporting data is
CC  given. Suggested activities include nutritional activity, cytokine and
CC  cell proliferation/differentiation activity, immune stimulating (e.g. as
CC  vaccines) or suppressing activity, hematopoiesis regulating activity,
CC  tissue growth activity, activin/inhibin activity,
CC  chemotactic/chemokinetic activity, hemostatic and thrombolytic activity,
CC  receptor/ligand activity, anti-inflammatory activity, cadherin/tumor
CC  invasion suppressor activity, and tumor inhibition activity. The
CC  polynucleotides are also stated to be useful for gene therapy. AAZ43809-
CC  243840 represent DNA probes used to isolate the polynucleotides
CC  represented in AAZ43777-243808 which encode the secreted proteins
CC  represented in AAY50905-Y50947
XX
SQ  Sequence 19 BP; 6 A; 1 C; 10 G; 2 T; 0 U; 0 Other;
Query Match 0.8%; Score 14; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      34  AGGTAGGCAGGAGG 47
|||||
RESULT 1265
AAH57779
ID  AAH57779 standard; DNA; 19 BP.
XX
AC  AAH57779;
XX
DT  10-SEP-2001 (first entry)
XX
DE  Cell-cycle dependent kinase cdk2 ribozyme binding site SEQ ID NO:203.
XX
KW  Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
KW  recognition site; target; ribozyme binding site; eye disease; vulneryary;
KW  proliferative disease; skin disease; psoriasis; diabetic retinopathy;
KW  cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;
KW  matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;
```

```
Db      1  AGGTAGGCAGGAGG 14
|||||
RESULT 1264
AAH57779
ID  AAH57779 standard; DNA; 19 BP.
XX
AC  AAH57779;
XX
DT  04-DEC-2000 (first entry)
XX
DE  cdk2 ribozyme binding site #54.
XX
KW  Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX
OS  Mammalia.
XX
PN  WO200032765-A2.
XX
PD  08-JUN-2000.
XX
PF  06-DEC-1999; 99WO-US028772.
XX
PR  04-DEC-1998; 98US-0110954P.
XX
PA  (IMMU-) IMMUSOL INC.
XX
PI  Tritz R, Welch PJ, Barber JR, Robbins JM;
XX  WPI; 2000-412314/35.
XX
PT  New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
PT  RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,
PT  PCNA and Cyclin B1.
XX
PS  Disclosure; Page 49; 109pp; English.
XX
CC  The present invention relates to a hairpin or hammerhead ribozyme,
CC  designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
CC  other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
CC  Representative examples of ribozyme recognition sites are given in
CC  AAZ82415 to AAZ86787. The ribozyme of the invention is useful for
CC  inhibiting restenosis by introduction of the ribozyme into cells. The
CC  ribozyme is resistant to endonuclease activity and hence is efficient in
CC  restenosis treatment
XX
SQ  Sequence 19 BP; 2 A; 6 C; 4 G; 7 T; 0 U; 0 Other;
Query Match 0.8%; Score 14; DB 1; Length 19;
Best Local Similarity 100.0%; Pred. No. 9.1e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      922  CTGTTCAGGTGCT 935
|||||
DB      6  CTGTTCAGGTGCT 19
|||||
RESULT 1265
AAH57779
ID  AAH57779 standard; DNA; 19 BP.
XX
AC  AAH57779;
XX
DT  10-SEP-2001 (first entry)
XX
DE  Cell-cycle dependent kinase cdk2 ribozyme binding site SEQ ID NO:203.
XX
KW  Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
KW  recognition site; target; ribozyme binding site; eye disease; vulneryary;
KW  proliferative disease; skin disease; psoriasis; diabetic retinopathy;
KW  cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;
KW  matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;
```

KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
KW antiskinking; ophthalmological; keratolytic; gene therapy; viral wart;  
KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
KW sickle cell retinopathy; ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
XX  
PN WO200130362-A2.  
XX  
XX  
PD 03-MAY-2001.  
XX  
XX  
PF 26-OCT-2000; 2000WO-US029500.  
XX  
XX  
PR 26-OCT-1999; 99US-0161532P.  
XX  
XX  
PA (IMMU-) IMMUSOL INC.  
XX  
XX  
PI Robbins JM, Tritz R;  
XX  
XX  
DR WPI; 2001-300427/31.  
XX  
XX  
PT Treating proliferative skin or eye diseases and scarring, using ribozymes  
PT that cleave RNA encoding cytokines involved in inflammation, matrix  
PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
XX  
XX  
PS Example 1; Page 86; 408pp; English.  
XX  
XX  
CC The present invention describes a method for treating a proliferative  
CC skin or eye disease and scarring. The method involves administering a  
CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
CC dependent kinase, growth factor or a reductase, or administering a  
CC nucleic acid molecule (II) comprising a promoter operably linked to a  
CC nucleic acid segment encoding (i). (i) can have antipsoriatic,  
CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,  
CC ophthalmological, vulnerary, keratolytic and virucide activities, and  
CC cleaves RNA encoding cytokine involved in inflammation. (i) can be used  
CC in gene therapy. (i) and (ii) are useful for treating proliferative skin  
CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
CC also be used for treating proliferative eye diseases such as diabetic  
CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
CC prematurity and retinal detachment, and for treating and preventing  
CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
CC scar. AAH57577 to AAH62099 represent sequences used in the  
CC exemplification of the present invention  
XX  
SQ Sequence 19 BP; 2 A; 6 C; 4 G; 7 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14; DB 1; Length 19;  
Best Local Similarity 100.0%; Pred. No. 9.1e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 922 CTGTTCCAGCTGCT 935  
Db 6 CTGTTCCAGCTGCT 19  
  
RESULT 1266  
ADF37430  
ID ADF37430 standard; RNA; 19 BP.  
XX  
XX  
AC ADF37430;  
XX  
XX  
DT 12-FEB-2004 (first entry)  
XX  
XX  
DE Human VEGFR3 short interfering nucleic acid (siNA) SEQ ID NO:1719.  
XX  
XX  
KW double-stranded short interfering nucleic acid;  
KW short interfering nucleic acid; siNA; downregulation;  
KW vascular endothelial growth factor receptor; VEGFR; antiangiogenic;

KW cytostatic; antidiabetic; ophthalmological; antiarthritic; antipsoriatic;  
KW nephrotropic; gynaecological; angiogenesis-associated condition; cancer;  
KW diabetic retinopathy; macular degeneration; neovascular glaucoma;  
KW arthritis; psoriasis; endometriosis; angiofibroma;  
KW polycystic kidney disease; ss.  
XX  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
XX  
PN WO2003070910-A2.  
XX  
XX  
PD 28-AUG-2003.  
XX  
XX  
PF 20-FEB-2003; 2003WO-US005022.  
XX  
XX  
PR 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 29-MAY-2002; 2002WO-US017674.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 03-JUL-2002; 2002US-0393796P.  
PR 29-JUL-2002; 2002US-0399348P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0408293P.  
PR 04-NOV-2002; 2002US-0028794P.  
PR 27-NOV-2002; 2002US-0030674P.  
PR 15-JAN-2003; 2003US-0040129P.  
XX  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
XX  
PI Mcswiggen J, Beigelman L, Pavco P;  
XX  
XX  
DR WPI; 2003-679876/64.  
XX  
XX  
PT New double-stranded interfering nucleic acid, useful e.g. for treatment  
PT and diagnosis of cancer, downregulates the vascular endothelial growth  
PT factor receptor gene.  
XX  
XX  
PS Example 3; SEQ ID NO 1719; 207pp; English.  
XX  
XX  
CC The present invention describes a double-stranded short interfering  
CC nucleic acid (siNA) that downregulates expression of the vascular  
CC endothelial growth factor receptor (VEGFR) gene. Also described: (1) a  
CC siNA that downregulates the VEGF gene; (2) kits for in vitro or in vivo  
CC delivery of siNA; (3) conjugates and/or complexes of siNA; (4) vectors  
CC that express siNA; and (5) single-stranded siNA with similar properties.  
CC The siNAs have antiangiogenic, cytostatic, antidiabetic,  
CC ophthalmological, antiarthritic, antipsoriatic, nephrotropic and  
CC gynaecological activities. The siNA are useful for modulating  
CC (downregulating) the expression of VEGFR genes. The siNA are potentially  
CC useful for treating a wide range of angiogenesis-associated conditions,  
CC particularly cancers, diabetic retinopathy, macular degeneration,  
CC neovascular glaucoma, arthritis, psoriasis, endometriosis, angiofibroma,  
CC and polycystic kidney disease. The siNA may also be useful for diagnosis,  
CC drug screening, target identification and validation, genetic  
CC engineering, studying gene function, and also for gene mapping (e.g. of  
CC single-nucleotide polymorphisms). The present sequence is used in the  
CC exemplification of the present invention.  
XX  
SQ Sequence 19 BP; 9 A; 3 C; 6 G; 0 T; 1 U; 0 Other;  
  
Query Match 0.8%; Score 14; DB 1; Length 19;  
Best Local Similarity 92.9%; Pred. No. 9.1e+02;  
Matches 13; Conservative 1; Mismatches 0; Indels 0; Gaps 0;  
  
QY 180 AGGCATAGACAGA 193  
Db 1 AGGCATAGACAGA 14  
  
RESULT 1267  
ADF37677/C  
ID ADF37677 standard; RNA; 19 BP.

XX ADF37677;  
 XX 12-FEB-2004 (first entry)  
 XX Human VEGFR3 short interfering nucleic acid (siNA) SEQ ID NO:1966.  
 XX  
 XX double-stranded short interfering nucleic acid;  
 KW short interfering nucleic acid; siNA; downregulation;  
 KW vascular endothelial growth factor receptor; VEGFR; antiangiogenic;  
 KW cytosolic; antidiabetic; ophthalmological; antiarthritic; antipsoriatic;  
 KW nephrotropic; gynaecological; angiogenesis-associated condition; cancer;  
 KW diabetic retinopathy; macular degeneration; neovascular glaucoma;  
 KW arthritis; psoriasis; endometriosis; angiofibroma;  
 KW polycystic kidney disease; ss.  
 XX Synthetic.  
 OS Homo sapiens.  
 OS  
 XX WO2003070910-A2.  
 XX  
 XX 28-AUG-2003.  
 XX  
 XX 20-FEB-2003; 2003WO-US005022.  
 XX  
 XX 20-FEB-2002; 2002US-0358580P.  
 PR 11-MAR-2002; 2002US-0363124P.  
 PR 29-MAY-2002; 2002WO-US017674.  
 PR 06-JUN-2002; 2002US-0386782P.  
 PR 03-JUL-2002; 2002US-0393796P.  
 PR 29-JUL-2002; 2002US-0399348P.  
 PR 29-AUG-2002; 2002US-0406784P.  
 PR 05-SEP-2002; 2002US-0408378P.  
 PR 09-SEP-2002; 2002US-0409293P.  
 PR 04-NOV-2002; 2002US-0028794P.  
 PR 27-NOV-2002; 2002US-00306747.  
 PR 15-JAN-2003; 2003US-0440129P.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX  
 XX Mcswiggen J, Beigelman L, Pavco P;  
 XX WPI; 2003-679876/64.  
 XX  
 XX New double-stranded interfering nucleic acid, useful e.g. for treatment  
 PT and diagnosis of cancer, downregulates the vascular endothelial growth  
 PT factor receptor gene.  
 XX  
 XX Example 3; SEQ ID NO 1966; 207pp; English.  
 XX  
 XX The present invention describes a double-stranded short interfering  
 CC nucleic acid (siNA) that downregulates expression of the vascular  
 CC endothelial growth factor receptor (VEGFR) gene. Also described: (1) a  
 CC siNA that downregulates the VEGF gene; (2) kits for in vitro or in vivo  
 CC delivery of siNA; (3) conjugates and/or complexes of siNA; (4) vectors  
 CC that express siNA; and (5) single-stranded siNA with similar properties.  
 CC The siNAs have antiangiogenic, cytostatic, antidiabetic,  
 CC ophthalmological, antiarthritic, antipsoriatic, nephrotropic and  
 CC gynaecological activities. The siNA are useful for modulating  
 CC (downregulating) the expression of VEGFR genes. The siNA are potentially  
 CC useful for treating a wide range of angiogenesis-associated conditions,  
 CC particularly cancers, diabetic retinopathy, macular degeneration,  
 CC neovascular glaucoma, arthritis, psoriasis, endometriosis, angiofibroma,  
 CC and polycystic kidney disease. The siNA may also be useful for diagnosis,  
 CC drug screening, target identification and validation, genetic  
 CC engineering, studying gene function, and also for gene mapping (e.g. of  
 CC single-nucleotide polymorphisms). The present sequence is used in the  
 CC exemplification of the present invention.  
 XX  
 XX Sequence 19 BP; 1 A; 6 C; 3 G; 0 T; 9 U; 0 Other;  
 Query Match 0.8%; Score 14; DB 1; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 9.1e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 XX  
 XX RESULT 1269  
 AAX80149/C  
 ID AAX80149 standard; DNA; 20 BP.  
 XX  
 XX AAX80149;  
 AC  
 XX 17-AUG-1999 (first entry)  
 DT  
 XX Clostridium histolyticum collagenase PCR primer #1.  
 DE  
 XX Clostridium histolyticum; collagenase; enzymatically active; cleavage;  
 KW fusion protein; PCR primer; ss.  
 XX  
 XX Synthetic.  
 OS  
 OS Clostridium histolyticum.  
 XX  
 XX JP11137256-A.  
 XX

Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 180 AGGCATAGACAAGA 193  
 DB 19 AGGCATAGACAAGA 6  
 XX  
 XX RESULT 1268  
 ADF70750  
 ID ADF70750 standard; DNA; 19 BP.  
 XX  
 XX ADF70750;  
 AC  
 XX 12-FEB-2004 (first entry)  
 DT  
 XX Hepatitis B virus PreS1 probe, SEQ ID 10.  
 DE  
 XX PreS1; HBV; probe; ss.  
 KW  
 XX Hepatitis B virus.  
 OS  
 XX JP2002355098-A.  
 PN  
 XX 10-DEC-2002.  
 PD  
 XX 14-AUG-2001; 2001JP-00246141.  
 PF  
 XX 14-AUG-2000; 2000JP-00245606.  
 PR  
 XX (GENO-) GENOME SCI KENKYUSHO KK.  
 PA  
 XX WPI; 2003-451644/43.  
 DR  
 XX Classification of genotype of hepatitis B viruses and primers and probes  
 PT for the method.  
 PT  
 XX Claim 3; Page 3; 13pp; Japanese.  
 PS  
 XX The present invention relates to a method for judging the genotype of  
 CC hepatitis B viruses (HBV) in which part of the gene sequence of the PreS1  
 CC region of HBV is amplified by PCR using labelled primers and the  
 CC amplified product is hybridized with HBV type A, B, C, D, E, F and G gene  
 CC -specific probes and the label in the PCR product is detected.  
 XX  
 XX Sequence 19 BP; 9 A; 7 C; 2 G; 1 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 14; DB 1; Length 19;  
 Best Local Similarity 100.0%; Pred. No. 9.1e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1058 CAATCCCAACAAG 1071  
 DB 6 CAATCCCAACAAG 19  
 XX  
 XX RESULT 1269  
 AAX80149/C  
 ID AAX80149 standard; DNA; 20 BP.  
 XX  
 XX AAX80149;  
 AC  
 XX 17-AUG-1999 (first entry)  
 DT  
 XX Clostridium histolyticum collagenase PCR primer #1.  
 DE  
 XX Clostridium histolyticum; collagenase; enzymatically active; cleavage;  
 KW fusion protein; PCR primer; ss.  
 XX  
 XX Synthetic.  
 OS  
 OS Clostridium histolyticum.  
 XX  
 XX JP11137256-A.  
 XX

PD 25-MAY-1999.  
 XX  
 PF 12-NOV-1997; 97JP-00310887.  
 XX  
 PR 12-NOV-1997; 97JP-00310887.  
 XX  
 PA (SEK) SEIKAGAKU KOGYO CO LTD.  
 XX  
 DR WPI; 1999-374377/32.  
 XX  
 PT New enzymatically active polypeptide and kit containing it - useful for  
 PT cleaving fusion proteins.  
 XX  
 PS Example 1; Page 15; 16pp; Japanese.  
 XX  
 CC The present invention describes an enzymatically active polypeptide (I)  
 CC derived from a Clostridium histolyticum collagenase with its collagen-  
 CC combining region deleted which specifically recognizes a peptide with the  
 CC sequence PLGP, and which cleaves the peptide by hydrolysing the peptide  
 CC bond on C-terminal side of the leucine residue of this sequence and which  
 CC does not decompose water-insoluble type I collagen. The present sequence  
 CC represents a PCR primer used in an example from the present invention  
 XX  
 XX Sequence 20 BP; 3 A; 3 C; 6 G; 8 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 14; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1527 TCAGCTACAAAGG 1540  
 DB 17 TCAGCTACAAAGG 4  
 RESULT 1270  
 AAI99916/C  
 ID AAI99916 standard; DNA; 20 BP.  
 XX  
 AC AAI99916;  
 XX  
 DT 18-FEB-2002 (first entry)  
 XX  
 DE Human alpha-2BAR genotyping PCR primer SEQ ID NO 22.  
 XX  
 KW Human; genotyping; alpha-2B; alpha-2A; alpha-2C; adrenergic receptor;  
 KW polymorphic site; allelic variant; cardiovascular disease;  
 KW central nervous system disease; adenylyl cyclase; MAP kinase activity;  
 KW phosphorylation; inositol phosphate; alpha-2BAR; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200179561-A2.  
 XX  
 PD 25-OCT-2001.  
 XX  
 PF 17-APR-2001; 2001WO-US012575.  
 XX  
 PR 17-APR-2000; 2000US-00551744.  
 PR 10-AUG-2000; 2000US-00636259.  
 PR 19-OCT-2000; 2000US-00692077.  
 XX  
 XX (LIGG/) LIGGETT S B.  
 PA (SMAL/) SMALL K M.  
 XX  
 XX Liggett SB, Small KM;  
 XX WPI; 2001-611728/70.  
 XX  
 PT Genotyping an alpha-2B, 2A, or 2C adrenergic receptor gene useful for  
 PT determining whether an individual is at increased risk of developing a  
 PT disease associated with the corresponding receptor comprises detecting a  
 PT polymorphic site.  
 XX

PS Claim 10; Page 112; 163pp; English.

XX  
 CC The invention relates to genotyping an alpha-2B, 2A, or 2C adrenergic  
 CC receptor gene (I)-(III) by detecting a polymorphic site, comprising: (a)  
 CC obtaining a sample having a polynucleotide encoding an alpha-2B, alpha-2A  
 CC or alpha-2C or fragment or complement of; and (b) detecting a polymorphic  
 CC site comprising nucleotide positions 901-909 of (I), a site comprising  
 CC cytosine or guanine at position 753 of (IIV) or a site comprising (A)  
 CC (ggggcgggcg) or (B) (ggggcggtgag) at positions 961-972 of (III). The  
 CC method may be used for genotyping an alpha-2B, alpha-2A or alpha-2C receptor  
 CC gene and further used to determine whether an individual is at increased  
 CC risk of developing a disease associated with alpha-2B, alpha-2A or alpha-2,  
 CC comprising detecting a polymorphic site which correlate to disease  
 CC selected from cardiovascular disease, central nervous system disease and  
 CC combinations of these. In addition, the technique may be used to predict  
 CC an individual's response to an alpha-2B, alpha-2A, or alpha-2C agonist (e.g.  
 CC epinephrine, norepinephrine, clonidine, oxymetazoline, guanabenz,  
 CC UK14304, BHT933 and combinations of these) or antagonist (e.g. yohimbine,  
 CC prazosin, ARC 239, rauwolfine, idazoxan, tolazoline, phentolamine and  
 CC combinations of these) by detecting the polymorphic site and correlating  
 CC the site to a predetermined response (where the response is correlated to  
 CC adenylyl cyclase, MAP kinase activity, phosphorylation or inositol  
 CC phosphate levels). The present sequence is that of a human alpha-2BAR PCR  
 CC primer, useful for the genotyping methods of the invention  
 XX

SQ Sequence 20 BP; 6 A; 3 C; 7 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1252 ATCTTAGGAACCCC 1265  
 DB 17 ATCTTAGGAACCCC 4

RESULT 1271

AAC88715

ID AAC88715 standard; DNA; 20 BP.

XX AAC88715;

XX 07-MAR-2001 (first entry)

XX Human catenin-binding zinc finger protein PCR primer FVR463F.

XX Catenin-binding zinc finger protein; cancer; neurological disorder;  
 KW drug screening; PCR primer; ss.

XX Homo sapiens.

XX EP1054059-A1.

XX 22-NOV-2000.

XX 17-MAY-1999; 99EP-00201543.

XX 17-MAY-1999; 99EP-00201543.

XX (VLA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.

XX Van Roy F, Vanlandschoot A, Janssens B;

XX WPI; 2001-033776/05.

XX Nucleic acid or its fragments, useful for diagnosing and treating cancer  
 PT and neurological disorders, corresponds to a catenin-binding protein in  
 PT signal transduction and gene regulatory pathways.

XX Disclosure; Page 17; 71pp; English.

XX The present invention is related to the coding sequence and protein  
 CC fragments of a human catenin-binding zinc finger protein. The coding

CC sequence was isolated from a human kidney cDNA library, but is expressed  
 CC in most human tissue. The sequences provided by the invention can be used  
 CC in the diagnosis and treatment of cancer and neurological disorders, and  
 CC in drug screening to identify compounds capable of the same

XX Sequence 20 BP; 5 A; 2 C; 8 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 877 GATGACTGTGGAA 890  
 |||||  
 Db 2 GATGACTGTGGAA 15

RESULT 1272

AAC88704  
 ID AAC88704 standard; DNA; 20 BP.  
 XX  
 AC AAC88704;  
 XX  
 DT 07-MAR-2001 (first entry)  
 XX  
 DE Human catenin-binding zinc finger protein PCR primer FVR293F.  
 XX  
 KW Catenin-binding zinc finger protein; cancer; neurological disorder;  
 KW drug screening; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 EN EPI054059-A1.  
 XX  
 PD 22-NOV-2000.  
 XX  
 PF 17-MAY-1999; 99EP-00201543.  
 XX  
 PR 17-MAY-1999; 99EP-00201543.  
 XX  
 PA (VLAA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.  
 XX  
 PI Van Roy F, Vanlandschoot A, Janssens B;  
 XX  
 WIPI; 2001-033776/05.  
 XX  
 Nucleic acid or its fragments, useful for diagnosing and treating cancer  
 PT and neurological disorders, corresponds to a catenin-binding protein in  
 PT signal transduction and gene regulatory pathways.  
 XX  
 PS Disclosure; Page 17; 71pp; English.  
 XX  
 CC The present invention is related to the coding sequence and protein  
 CC fragments of a human catenin-binding zinc finger protein. The coding  
 CC sequence was isolated from a human kidney cDNA library, but is expressed  
 CC in most human tissue. The sequences provided by the invention can be used  
 CC in the diagnosis and treatment of cancer and neurological disorders, and  
 CC in drug screening to identify compounds capable of the same

XX Sequence 20 BP; 5 A; 1 C; 8 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 877 GATGACTGTGGAA 890  
 |||||  
 Db 5 GATGACTGTGGAA 18

RESULT 1273

AAD12630  
 ID AAD12630 standard; DNA; 20 BP.  
 XX

AAC12630;  
 XX  
 DT 25-SEP-2001 (first entry)  
 XX  
 DE Human ANC\_2H01 cDNA sequencing forward primer, FVR463F.  
 XX  
 KW Human; ANC\_2H01 protein; catenin-binding protein; signal transduction;  
 KW gene regulation; zinc finger protein; alphaN-catenin; drug screening;  
 KW therapy; cancer; neurological disorder; cytostatic; neuroprotective;  
 KW primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 EN WO200147954-A2.  
 XX  
 PD 05-JUL-2001.  
 XX  
 PF 18-MAY-2000; 2000WO-EP004535.  
 XX  
 PR 23-DEC-1999; 99EP-00204512.  
 XX  
 PA (VLAA-) VLAAMS INTERUNIVERSITAIR INST BIOTECHNOG.  
 XX  
 PI Van Roy F, Vanlandschoot A, Janssens B;  
 XX  
 WIPI; 2001-418220/44.  
 XX  
 PT Novel recombinant nucleic acids useful for diagnosing, prognosing and/or  
 PT treating cancer and neurological disorders, corresponds to a protein  
 PT binding to alpha-catenin protein and with signal transduction function.  
 XX  
 PS Disclosure; Page 66; 160pp; English.  
 XX  
 CC The invention relates to human catenin-binding proteins and their  
 CC corresponding cDNA molecules which functions in signal transduction and  
 CC gene regulatory pathways. The invention also provides an isolated and/or  
 CC recombinant nucleic acid or its functional fragment, homologue or  
 CC derivative, corresponding to an alpha-catenin binding protein. The  
 CC invention also relates to a novel human zinc finger protein binding with  
 CC a member of the a-catulin/vinculin family, preferably with a human  
 CC isoform of alpha N-catenin (neural form). The invention also relates to  
 CC the field of drug discovery, diagnosis, prognosis and treatment of cancer  
 CC and neurological disorders. The present sequence is a primer which is  
 CC used for sequencing human ANC\_2H01 cDNA

SQ Sequence 20 BP; 5 A; 2 C; 8 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 877 GATGACTGTGGAA 890  
 |||||  
 Db 2 GATGACTGTGGAA 15

RESULT 1274

AAD12619  
 ID AAD12619 standard; DNA; 20 BP.  
 XX  
 AC AAD12619;  
 XX  
 DT 25-SEP-2001 (first entry)  
 XX  
 DE Human ANC\_2H01 cDNA sequencing forward primer, FVR293F.  
 XX  
 KW Human; ANC\_2H01 protein; catenin-binding protein; signal transduction;  
 KW gene regulation; zinc finger protein; alphaN-catenin; drug screening;  
 KW therapy; cancer; neurological disorder; cytostatic; neuroprotective;  
 KW primer; ss.  
 XX  
 OS Homo sapiens.  
 XX



PD 20-MAR-2003.  
XX  
PF 12-SEP-2002; 2002WO-US029148.  
XX  
PR 13-SEP-2001; 2001US-00953318.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
XX Bennett CF, Watt AT;  
XX WPI; 2003-301004/29.  
DR  
XX  
XX New antisense oligonucleotide targeted to a nucleic acid encoding  
PT vascular endothelial growth factor receptor-1, useful for diagnosing or  
PT treating cancer, rheumatoid arthritis, or diseases or conditions  
PT involving angiogenesis.  
XX  
XX  
PS Claim 3; Page 86; 150pp; English.  
XX  
CC The present invention describes a compound (C) 8-50 nucleobases in length  
CC targeted to a nucleic acid molecule encoding vascular endothelial growth  
CC factor receptor-1 (VEGFR-1), where the compound inhibits the expression  
CC of VEGFR-1 and specifically hybridises with the nucleic acid encoding  
CC VEGFR-1 or with an 8-nucleobase portion of an active site on the nucleic  
CC acid molecule encoding VEGFR-1. Also described: (1) a composition  
CC comprising (C) and a carrier or diluent; (2) inhibiting the expression of  
CC VEGFR-1 in cells or tissues by contacting the cells or tissues with (C)  
CC so that the expression of VEGFR-1 is inhibited; and (3) treating an  
CC animal having a disease or condition associated with VEGFR-1 by  
CC administering (C) to the animal so that the expression of VEGFR-1 is  
CC inhibited. (C) has antiangiogenic, antirheumatic, antiarthritic,  
CC cytostatic and antiinflammatory activities, and can be used in antisense  
CC gene therapy. The antisense compounds are useful for modulating the  
CC expression of VEGFR-1 and for treating diseases or conditions associated  
CC with the expression of VEGFR-1, such as hyperproliferative disorders  
CC (e.g. cancer), rheumatoid arthritis, or diseases or conditions involving  
CC angiogenesis. The antisense compounds are also useful for diagnostics,  
CC therapeutics, prophylaxis, e.g. to prevent or delay infection,  
CC inflammation or tumour formation, as research reagents and kits, and in  
CC distinguishing between functions of various members of a biological  
CC pathway. The present sequence represents a mouse VEGFR-2 chimeric  
CC phosphorochitoate antisense oligonucleotide, which is used in an example  
CC from the present invention  
XX  
SQ Sequence 20 BP; 7 A; 3 C; 5 G; 5 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 539 CCATCTTTGACAAG 552  
Db 18 CCATCTTTGACAAG 5  
|||||  
|||||  
  
RESULT 1277  
ABZ93277/c  
ID ABZ93277 standard; DNA; 20 BP.  
XX  
AC ABZ93277;  
XX  
XX 17-OCT-2003 (first entry)  
DT  
XX Human oligonucleotide sequence.  
DE  
XX Human; antisense; lung dysfunction; nasal airway dysfunction;  
KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiasthmatic;  
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;  
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;  
KW adenosine receptor; bronchodilation; lung allergy;  
KW lung inflammation; bronchoconstriction; ds.  
XX  
OS Homo sapiens.

XX WO200285308-A2.  
PN  
XX 31-OCT-2002.  
PD  
XX  
XX 23-APR-2002; 2002WO-US013135.  
PF  
XX  
XX 24-APR-2001; 2001US-0286137P.  
PR  
XX  
XX (EPIG-) EPIGENESIS PHARM INC.  
PA  
XX  
XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
PI Miller S, Tang L, Shahabuddin S;  
PI  
XX WPI; 2003-229219/22.  
DR  
XX  
XX Pharmaceutical composition for treating ailments associated with impaired  
PT respiration, has oligo(s) antisense to specific gene(s) or its  
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or  
PT ubiquinone.  
XX  
PS Disclosure; SEQ ID NO 8519; 872pp; English.  
XX  
CC The invention relates to a novel pharmaceutical composition, which has a  
CC first active agent comprising an oligonucleotide antisense to the  
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,  
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of  
CC junctions of genes encoding a polypeptide associated with lung and/or  
CC nasal airway dysfunction and a second active agent comprising an  
CC antiinflammatory steroid and ubiquinone. A composition of the invention  
CC has antiinflammatory, antiasthmatic, antiasthmatic, hypotensive, and  
CC immunosuppressive, and cytostatic activity. The composition may have a  
CC use in antisense gene therapy. The composition is useful for treating or  
CC preventing a respiratory, lung or malignant disease or condition, also  
CC for enhancing the prophylactic or therapeutic respiratory effect of an  
CC antiinflammatory steroid in a subject, for reducing or depleting levels  
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine  
CC receptor, producing bronchodilation, increasing levels of ubiquinone or  
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,  
CC lung inflammation, lung allergies, or a respiratory disease or condition.  
CC Note: The sequence data for this patent is not represented in the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 14; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
Qy 1087 GTGGTGACACTGTG 1100  
Db 14 GTGGTGACACTGTG 1  
|||||  
|||||  
  
RESULT 1278  
ABD29507/c  
ID ABD29507 standard; DNA; 20 BP.  
XX  
XX ABD29507;  
AC  
XX  
XX 29-JUN-2004 (first entry)  
DT  
XX  
XX AA664176-derived oligonucleotide SEQ ID 8519.  
DE  
XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
KW surfactant depletion; antiasthmatic; antiinflammatory; antiasthmatic;  
KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
KW pulmonary transplantation rejection; ss; primer.

XX OS Homo sapiens.  
XX PN WO200285309-A2.  
XX PD 31-OCT-2002.  
XX PF 23-APR-2002; 2002WO-US013143.  
XX PR 24-APR-2001; 2001US-0286036P.  
XX PA (EPIG-) EPIGENESIS PHARM INC.  
XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
XX PI Miller S, Tang L, Shahabuddin S;  
XX DR WPI; 2003-093058/08.  
XX PT Pharmaceutical composition for treating asthma, has antisense  
XX PT oligonucleotide containing less percentage of adenosine, targeted to  
XX PT nucleic acids associated with lung airway or lung dysfunction, and  
XX PT bronchodilating agent.  
XX PS Claim 15; SEQ ID NO 8519; 763pp; English.  
XX CC This invention describes a novel composition (a) a first active agent,  
XX CC comprising oligonucleotides, effective for alleviating  
XX CC bronchoconstriction, respiratory tract inflammation, allergies and  
XX CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
XX CC surfactant depletion or hyposecretion, when administered to a mammal. The  
XX CC oligonucleotides are derived from a gene encoding or regulating  
XX CC expression of a target polypeptide associated with lung airway or lung  
XX CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
XX CC The invention also describes a kit, that comprises: (a) a delivery  
XX CC device, in separate containers, (b) the oligonucleotides, (c)  
XX CC instructions for adding a carrier and for use of the kit. The composition  
XX CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
XX CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
XX CC beta-adrenergic agonist. The composition is useful for preventing or  
XX CC treating a respiratory, lung or malignant disease. The administered  
XX CC composition comprises oligo and is administered to reduce the production  
XX CC or availability, or to increase the degradation of the target mRNA or to  
XX CC reduce the amount of target polypeptide present in the lungs. The  
XX CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
XX CC inflammation, allergies and/or surfactant hypoproduction are associated  
XX CC with a disease or condition such as pulmonary vasoconstriction,  
XX CC inflammation, allergies, asthma, impeded respiration, respiratory  
XX CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
XX CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
XX CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
XX CC The reduced adenosine content of the anti-sense oligos corresponding to  
XX CC thymidines present in the target RNA serves to prevent the breakdown of  
XX CC the oligonucleotides into products that free adenosine into the system  
XX CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
XX CC prevent any unwanted effects due to it  
XX SQ Sequence 20 BP; 6 A; 8 C; 3 G; 3 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1087 GTGGTGACACTGTG 1100  
|||||  
14 GTGGTGACACTGTG 1  
Db  
RESULT 1279  
ADJ34005/c  
ID ADJ34005 standard; DNA; 20 BP.  
XX AC ADJ34005;  
XX AC

DT 22-APR-2004 (first entry)  
XX Human polo-like kinase antisense oligonucleotide SEQ ID NO:65.  
XX polo-like kinase; polo-like kinase inhibitor; antisense oligonucleotide;  
XX cytostatic; antiinflammatory; antimicrobial; antisense gene therapy;  
KW kinase inhibitor; hyperproliferative disorder; cancer;  
KW non-small cell lung cancer; oesophageal cancer; infection; inflammation;  
KW tumour; human; phosphorothioate; 2'-O-methoxyethyl; ss.  
XX Homo sapiens.  
OS Synthetic.  
XX Key Location/Qualifiers  
FH modified\_base 1..20  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "phosphorothioate linkages"  
FT modified\_base 1..5  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyls"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-O-methoxyethyls"  
XX WO2004011610-A2.  
XX 05-FEB-2004.  
XX 25-JUL-2003; 2003WO-US023413.  
XX 30-JUL-2002; 2002US-00209405.  
XX (ISIS-) ISIS PHARM INC.  
XX Wyatt JR, Freier SM;  
XX WPI; 2004-143840/14.  
XX New antisense compounds targeted to nucleic acid molecules encoding polo-  
XX like kinase, useful for treating diseases associated with aberrant  
XX expression of polo-like kinase, e.g. non-small cell lung cancer or  
XX esophageal cancer.  
XX Example 15; SEQ ID NO 65; 138pp; English.  
XX The present invention describes a compound (I) of 8-80 nucleobases in  
XX length targeted to a nucleic acid molecule encoding polo-like kinase,  
XX where (I) specifically hybridises with nucleic acid molecule encoding  
XX polo-like kinase and inhibits the expression of polo-like kinase, or  
XX specifically hybridises with at least an 8-nucleobase portion of a  
XX preferred target region on a nucleic acid molecule encoding polo-like  
XX kinase. Also described: (1) a composition comprising (I) and a  
XX pharmaceutical carrier or diluent; (2) inhibiting the expression of polo-  
XX like kinase in cells or tissues comprising contacting the cells or  
XX tissues with (I); (3) treating an animal having a disease or condition  
XX associated with polo-like kinase comprising administering to the animal a  
XX therapeutic or prophylactic amount of (I) so that expression of polo-like  
XX kinase is inhibited; and (4) screening for an antisense compound  
XX comprising contacting a preferred target region of a nucleic acid  
XX molecule encoding polo-like kinase with one or more candidate antisense  
XX compounds comprising at least an 8-nucleobase portion which is  
XX complementary to the preferred target region, and selecting for one or  
XX more candidate antisense compounds which inhibits the expression of a  
XX nucleic acid molecule encoding polo-like kinase. (I) has cytostatic,  
XX antiinflammatory and antimicrobial activities, and can be used in  
XX antisense gene therapy, and as a kinase inhibitor. The antisense  
XX oligonucleotides or compounds (I) can be used for inhibiting the  
XX expression of polo-like kinase, and for treating diseases or conditions  
XX associated with aberrant expression of polo-like kinase, e.g.  
XX hyperproliferative disorder such as cancer, including non-small cell lung



CC cancer or oesophageal cancer. The antisense compounds are also useful as  
CC research reagents and kits, or in diagnostic, therapeutic and  
CC prophylactic applications, e.g. to prevent or delay infection,  
CC inflammation or tumour formation. The present sequence represents a human  
CC polo-like kinase chimeric phosphorothioate antisense oligonucleotide,  
CC which is used in an example from the present invention.

XX  
SQ Sequence 20 BP; 5 A; 4 C; 4 G; 7 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 9.5e+02; Mismatches 0; Indels 0; Gaps 0;  
Matches 14; Conservative 0;

QY 132 GATGAAGAAGATCA 145  
DB 15 GATGAAGAAGATCA 2  
|||||

RESULT 1280  
ADL58295/c  
ID ADL58295 standard; DNA; 20 BP.

XX AC ADL58295;

XX DT 03-JUN-2004 (first entry)

XX DE Human ESM-1 antisense oligonucleotide seqid 544.

XX KW cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective;  
XX KW gene therapy; endothelial specific molecule-1; ESM-1;  
XX KW ESM-1 related disorder; diabetes; cancer; ischaemia; reperfusion injury;  
XX KW angiogenic disorder; immunological disorder; cardiovascular disorder;  
XX KW neurological disorder; antisense technology; ss.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers  
FT modified\_base 1..20

FT FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "OTHER= phosphorothioate backbone. All cytidine  
FT residues are 5-methylcytidines"

FT modified\_base 1..5

FT FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"

FT modified\_base 16..20

FT FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"

FT WO2004021978-A2.

XX PN 18-MAR-2004.

XX PF 19-AUG-2003; 2003WO-US025833.

XX PR 19-AUG-2002; 2002US-0404495P.

XX PA (PHAA ) PHARMACIA CORP.

XX PI Weinstein EJ, Griggs DW;

XX DR WPI; 2004-248358/23.

XX PT New antisense compound, having a sequence targeted to a nucleic acid  
XX PT encoding endothelial specific molecule-1 (ESM-1), useful for preparing a  
XX PT composition for treating e.g., diabetes, cancer or cardiovascular  
XX PT disorder.

XX PS Claim 3; SEQ ID NO 544; 555pp; English.

XX CC The invention describes a new antisense compound, having a sequence

CC comprising 8-30 bp targeted to a nucleic acid encoding endothelial  
CC specific molecule-1 (ESM-1), that specifically hybridises with the  
CC nucleic acid ESM-1 and inhibits its expression. Also described are: a  
CC composition; inhibiting the expression of ESM-1 in cells or tissues; and  
CC treating an animal having a disease or condition associated with ESM-1.  
CC The compound is useful for preparing a composition for treating diabetes,  
CC cancer, ischaemia or reperfusion injury, or angiogenic, immunological,  
CC cardiovascular or neurological disorder. This sequence represents an  
CC antisense oligonucleotide that can be used to modulate expression of  
CC endothelial specific molecule-1 (ESM-1).

XX SQ Sequence 20 BP; 8 A; 6 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 20;  
Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 593 TTGGCTTTGGGAAA 606  
DB 18 TTGGCTTTGGGAAA 5  
|||||

RESULT 1281

ADL59105/c

XX ID ADL59105 standard; DNA; 20 BP.

XX AC ADL59105;

XX DT 03-JUN-2004 (first entry)

XX DE Human ESM-1 antisense oligonucleotide seqid 1354.

XX KW cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective;  
XX KW gene therapy; endothelial specific molecule-1; ESM-1;  
XX KW ESM-1 related disorder; diabetes; cancer; ischaemia; reperfusion injury;  
XX KW angiogenic disorder; immunological disorder; cardiovascular disorder;  
XX KW neurological disorder; antisense technology; ss.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers  
FT modified\_base 1..20

FT FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "OTHER= phosphorothioate backbone. All cytidine  
FT residues are 5-methylcytidines"

FT modified\_base 1..5

FT FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"

FT modified\_base 16..20

FT FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"

FT WO2004021978-A2.

XX PN 18-MAR-2004.

XX PF 19-AUG-2003; 2003WO-US025833.

XX PR 19-AUG-2002; 2002US-0404495P.

XX PA (PHAA ) PHARMACIA CORP.

XX PI Weinstein EJ, Griggs DW;

XX DR WPI; 2004-248358/23.

XX PT New antisense compound, having a sequence targeted to a nucleic acid  
XX PT encoding endothelial specific molecule-1 (ESM-1), useful for preparing a  
XX PT composition for treating e.g., diabetes, cancer or cardiovascular  
XX PT disorder.  
XX PS Claim 3; SEQ ID NO 544; 555pp; English.  
XX CC The invention describes a new antisense compound, having a sequence

XX	PS	Claim 3; SEQ ID NO 1354; 555pp; English.	XX	PS	New antisense compound, having a sequence targeted to a nucleic acid encoding endothelial specific molecule-1 (ESM-1), useful for preparing a composition for treating e.g., diabetes, cancer or cardiovascular disorder.
XX	CC	The invention describes a new antisense compound, having a sequence comprising 8-30 bp targeted to a nucleic acid encoding endothelial specific molecule-1 (ESM-1), that specifically hybridises with the nucleic acid ESM-1 and inhibits its expression. Also described are: a composition; inhibiting the expression of ESM-1 in cells or tissues; and treating an animal having a disease or condition associated with ESM-1.	XX	CC	The compound is useful for preparing a composition for treating diabetes, cancer, ischaemia or reperfusion injury, or angiogenic, immunological, cardiovascular or neurological disorder. This sequence represents an antisense oligonucleotide that can be used to modulate expression of endothelial specific molecule-1 (ESM-1).
XX	CC	Sequence 20 BP; 11 A; 5 C; 1 G; 3 T; 0 U; 0 Other;	XX	CC	Sequence 20 BP; 6 A; 6 C; 2 G; 6 T; 0 U; 0 Other;
XX	QY	Query Match 0.8%; Score 14; DB 1; Length 20; Best Local Similarity 100.0%; Pred. No. 9.5e+02; Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	XX	QY	Query Match 0.8%; Score 14; DB 1; Length 20; Best Local Similarity 100.0%; Pred. No. 9.5e+02; Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX	DB	593 TTGGCTTTGGGAAA 606 14 TTGGCTTTGGGAAA 1	XX	DB	593 TTGGCTTTGGGAAA 606 20 TTGGCTTTGGGAAA 7
XX	RESULT 1282		XX	RESULT 1283	
XX	ID	ADL58628 standard; DNA; 20 BP.	XX	ID	ADL58665/c
XX	AC	ADL58628;	XX	AC	ADL58665;
XX	DT	03-JUN-2004 (first entry)	XX	DT	03-JUN-2004 (first entry)
XX	DE	Human ESM-1 antisense oligonucleotide seqid 877.	XX	DE	Human ESM-1 antisense oligonucleotide seqid 914.
XX	KW	cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; gene therapy; endothelial specific molecule-1; ESM-1;	XX	KW	cytostatic; antidiabetic; immunomodulator; cardiant; neuroprotective; gene therapy; endothelial specific molecule-1; ESM-1;
XX	KW	ESM-1 related disorder; diabetes; cancer; ischaemia; reperfusion injury; angiogenic disorder; immunological disorder; cardiovascular disorder; neurological disorder; antisense technology; ss.	XX	KW	ESM-1 related disorder; diabetes; cancer; ischaemia; reperfusion injury; angiogenic disorder; immunological disorder; cardiovascular disorder; neurological disorder; antisense technology; ss.
XX	OS	Homo sapiens.	XX	OS	Homo sapiens.
XX	FH	Key Location/Qualifiers	XX	FH	Key Location/Qualifiers
XX	FT	modified_base 1..20	XX	FT	modified_base 1..20
XX	FT	/mod_base= OTHER	XX	FT	/mod_base= OTHER
XX	FT	/note= "OTHER= phosphorothioate backbone. All cytidine residues are 5-methylcytidines"	XX	FT	/note= "OTHER= phosphorothioate backbone. All cytidine residues are 5-methylcytidines"
XX	FT	modified_base 1..5	XX	FT	modified_base 1..5
XX	FT	/tag= a	XX	FT	/tag= a
XX	FT	/mod_base= OTHER	XX	FT	/mod_base= OTHER
XX	FT	/note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"	XX	FT	/note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"
XX	FT	modified_base 16..20	XX	FT	modified_base 16..20
XX	FT	/tag= c	XX	FT	/tag= c
XX	FT	/mod_base= OTHER	XX	FT	/mod_base= OTHER
XX	FT	/note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"	XX	FT	/note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"
XX	PN	WO2004021978-A2.	XX	PN	WO2004021978-A2.
XX	PD	18-MAR-2004.	XX	PD	18-MAR-2004.
XX	PP	19-AUG-2003; 2003WO-US025833.	XX	PP	19-AUG-2003; 2003WO-US025833.
XX	PR	19-AUG-2002; 2002US-0404495P.	XX	PR	19-AUG-2002; 2002US-0404495P.
XX	PA	(PHAA ) PHARMACIA CORP.	XX	PA	(PHAA ) PHARMACIA CORP.
XX	PI	Weinstein EJ, Griggs DM;	XX	PI	Weinstein EJ, Griggs DM;
XX	DR	WPI; 2004-248358/23.	XX	DR	WPI; 2004-248358/23.

```
PI Weinstein EJ, Griggs DW;
XX WPI; 2004-248358/23.
XX
XX New antisense compound, having a sequence targeted to a nucleic acid
PT encoding endothelial specific molecule-1 (ESM-1), useful for preparing a
PT composition for treating e.g., diabetes, cancer or cardiovascular
PT disorder.
XX
XX Claim 3; SEQ ID NO 914; 555pp; English.
XX
XX The invention describes a new antisense compound, having a sequence
CC comprising 8-30 bp targeted to a nucleic acid encoding endothelial
CC specific molecule-1 (ESM-1), that specifically hybridises with the
CC nucleic acid ESM-1 and inhibits its expression. Also described are: a
CC composition; inhibiting the expression of ESM-1 in cells or tissues; and
CC treating an animal having a disease or condition associated with ESM-1.
CC The compound is useful for preparing a composition for treating diabetes,
CC cancer, ischaemia or reperfusion injury, or angiogenic, immunological,
CC cardiovascular or neurological disorder. This sequence represents an
CC antisense oligonucleotide that can be used to modulate expression of
CC endothelial specific molecule-1 (ESM-1).
XX
XX Sequence 20 BP; 9 A; 6 C; 1 G; 4 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 593 TTGGCTTTGGGAAA 606
Db 16 TTGGCTTTGGGAAA 3

RESULT 1284
ADL58424/c
ID ADL58424 standard; DNA; 20 BP.
XX
XX ADL58424;
XX
XX 03-JUN-2004 (first entry)
XX
XX Human ESM-1 antisense oligonucleotide seqid 673.
XX
XX cytotatic; antidiabetic; immunomodulator; cardiant; neuroprotective;
KW gene therapy; endothelial specific molecule-1; ESM-1;
KW ESM-1 related disorder; diabetes; cancer; ischaemia; reperfusion injury;
KW angiogenic disorder; immunological disorder; cardiovascular disorder;
KW neurological disorder; antisense technology; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= b
FT /mod_base= OTHER
FT /note= "OTHER= phosphorothioate backbone. All cytidine
FT residues are 5-methylcytidines"
FT modified_base 1..5
FT /*tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX WO2004021978-A2.
XX
XX 18-MAR-2004.
XX
XX 19-AUG-2003; 2003WO-US025833.
XX
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```
PR 19-AUG-2002; 2002US-0404495P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Weinstein EJ, Griggs DW;
XX WPI; 2004-248358/23.
XX
XX New antisense compound, having a sequence targeted to a nucleic acid
PT encoding endothelial specific molecule-1 (ESM-1), useful for preparing a
PT composition for treating e.g., diabetes, cancer or cardiovascular
PT disorder.
XX
XX Claim 3; SEQ ID NO 673; 555pp; English.
XX
XX The invention describes a new antisense compound, having a sequence
CC comprising 8-30 bp targeted to a nucleic acid encoding endothelial
CC specific molecule-1 (ESM-1), that specifically hybridises with the
CC nucleic acid ESM-1 and inhibits its expression. Also described are: a
CC composition; inhibiting the expression of ESM-1 in cells or tissues; and
CC treating an animal having a disease or condition associated with ESM-1.
CC The compound is useful for preparing a composition for treating diabetes,
CC cancer, ischaemia or reperfusion injury, or angiogenic, immunological,
CC cardiovascular or neurological disorder. This sequence represents an
CC antisense oligonucleotide that can be used to modulate expression of
CC endothelial specific molecule-1 (ESM-1).
XX
XX Sequence 20 BP; 9 A; 6 C; 1 G; 4 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 593 TTGGCTTTGGGAAA 606
Db 17 TTGGCTTTGGGAAA 4

RESULT 1285
ADL58846/c
ID ADL58846 standard; DNA; 20 BP.
XX
XX ADL58846;
XX
XX 03-JUN-2004 (first entry)
XX
XX Human ESM-1 antisense oligonucleotide seqid 1095.
XX
XX cytotatic; antidiabetic; immunomodulator; cardiant; neuroprotective;
KW gene therapy; endothelial specific molecule-1; ESM-1;
KW ESM-1 related disorder; diabetes; cancer; ischaemia; reperfusion injury;
KW angiogenic disorder; immunological disorder; cardiovascular disorder;
KW neurological disorder; antisense technology; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= b
FT /mod_base= OTHER
FT /note= "OTHER= phosphorothioate backbone. All cytidine
FT residues are 5-methylcytidines"
FT modified_base 1..5
FT /*tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"
XX
XX WO2004021978-A2.
XX
```

FT	/note= "OTHER= 2'-methoxyethyl (2'-MOE) nucleotides"	
XX	WO2004021978-A2.	
XX	18-MAR-2004.	
XX	19-AUG-2003; 2003WO-US025833.	
PF	19-AUG-2002; 2002US-0404495P.	
XX	(PHAA ) PHARMACIA CORP.	
XX	Weinstein EJ, Griggs DW;	
XX	WPI; 2004-248358/23.	
XX	New antisense compound, having a sequence targeted to a nucleic acid	
PT	encoding endothelial specific molecule-1 (ESM-1), useful for preparing a	
PT	composition for treating e.g., diabetes, cancer or cardiovascular	
PT	disorder.	
XX	Claim 3; SEQ ID NO 1096; 555pp; English.	
XX	The invention describes a new antisense compound, having a sequence	
CC	comprising 8-30 bp targeted to a nucleic acid encoding endothelial	
CC	specific molecule-1 (ESM-1), that specifically hybridises with the	
CC	nucleic acid ESM-1 and inhibits its expression. Also described are: a	
CC	composition, inhibiting the expression of ESM-1 in cells or tissues; and	
CC	treating an animal having a disease or condition associated with ESM-1.	
CC	The compound is useful for preparing a composition for treating diabetes	
CC	cancer, ischaemia or reperfusion injury, or angiogenic, immunological,	
CC	cardiovascular or neurological disorder. This sequence represents an	
CC	antisense oligonucleotide that can be used to modulate expression of	
CC	endothelial specific molecule-1 (ESM-1).	
XX	Sequence 20 BP; 7 A; 6 C; 2 G; 5 T; 0 U; 0 Other;	
XX	Query Match 0.8%; Score 14; DB 1; Length 20;	
XX	Best Local Similarity 100.0%; Pred.No. 9.5e+02;	
XX	Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps	
QY	593 TTGGCTTTGGGAAA 606	
Db	19 TTGGCTTTGGGAAA 6	
RESULT 1287		
AD053802		
ID	AD053802 standard; DNA; 20 BP.	
XX	AC	
XX	AD053802;	
XX	AC	
XX	15-JUL-2004 (first entry)	
XX	Farnesoid X receptor gene expression antisense inhibitory oligo #1175.	
XX	ss; antidiabetic; immunosuppressive; cardiovascular; antilipemic;	
KW	antiarteriosclerotic; hepatotropic; litholytic; anorectic;	
KW	neuroprotective; vasotropic; antisense; gene therapy;	
KW	Farnesoid X receptor; diabetes; immunological disorder;	
KW	cardiovascular disorder; dyslipidemia; atherosclerosis;	
KW	high density lipoprotein; low density lipoprotein; hypercholesterolemia;	
KW	gallstones; hypertriglyceridemia; obesity; neurological disorder;	
KW	ischemia; reperfusion; diagnostics; prophylaxis.	
OS	Homo sapiens.	
XX	WO2004030750-A1.	
EN	15-APR-2004.	
XX	25-SEP-2003; 2003WO-US030353.	
XX		

```

PR 25-SEP-2002; 2002US-0413588P.
XX (PHAA ) PHARMACIA CORP.
XX Kane CD;
XX WPI; 2004-347928/32.
XX New antisense oligonucleotides useful for modulating expression of
PT Farnesoid X Receptor (FXR) or for treating diseases associated with FXR,
PT e.g. diabetes, immunological disorders, cardiovascular disorders,
PT gallstones or obesity.
XX Claim 4; SEQ ID NO 1175; 150pp; English.
XX The invention relates to an antisense compound 8-30 nucleobases in length
CC targeted to a nucleic acid molecule encoding Farnesoid X receptor (FXR),
CC where the antisense compound specifically hybridizes with and inhibits
CC the expression of FXR. The composition and methods are useful for
CC inhibiting the expression of FXR (Farnesoid X receptor) in cells or
CC tissues, or for treating diseases or conditions associated with FXR, such
CC as diabetes, immunological disorders, cardiovascular disorders, e.g.
CC dyslipidemia and its symptoms, atherosclerosis, low HDL (high density
CC lipoprotein), elevated LDL (low density lipoprotein) or
CC hypercholesterolemia, gallstones, hypertriglyceridemia, obesity,
CC neurological disorders, or ischemia/reperfusion injury. In addition, the
CC composition is used for diagnostics, prophylaxis, or as research reagents
CC or kits. This sequence corresponds to an antisense oligonucleotide of the
CC invention.
XX Sequence 20 BP; 4 A; 9 C; 2 G; 5 T; 0 U; 0 Other;
SQ Query Match 0.8%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1658 ACACCCCTCACAGG 1671
DB |||||||||||
6 ACACCCCTCACAGG 19

RESULT 1288
AD053870
ID AD053870 standard; DNA; 20 BP.
XX AC AD053870;
XX 15-JUL-2004 (first entry)
XX Farnesoid X receptor gene expression antisense inhibitory oligo #1243.
XX ss: antidiabetic; immunosuppressive; cardiovascular; antilipemic;
XX antiarteriosclerotic; hepatotropic; litholytic; anorectic;
XX neuroprotective; vasotropic; antisense; gene therapy;
XX Farnesoid X receptor; diabetes; immunological disorder;
XX cardiovascular disorder; dyslipidemia; atherosclerosis;
XX high density lipoprotein; low density lipoprotein; hypercholesterolemia;
XX gallstones; hypertriglyceridemia; obesity; neurological disorder;
XX ischemia; reperfusion; diagnostics; prophylaxis.
XX Homo sapiens.
XX WO2004030750-A1.
XX 15-APR-2004.
XX 25-SEP-2003; 2003WO-US030353.
XX 25-SEP-2002; 2002US-0413588P.
XX (PHAA ) PHARMACIA CORP.
XX Kane CD;

PR 25-SEP-2002; 2002US-0413588P.
XX (PHAA ) PHARMACIA CORP.
XX Kane CD;
XX WPI; 2004-347928/32.
XX New antisense oligonucleotides useful for modulating expression of
PT Farnesoid X Receptor (FXR) or for treating diseases associated with FXR,
PT e.g. diabetes, immunological disorders, cardiovascular disorders,
PT gallstones or obesity.
XX Claim 4; SEQ ID NO 1243; 150pp; English.
XX The invention relates to an antisense compound 8-30 nucleobases in length
CC targeted to a nucleic acid molecule encoding Farnesoid X receptor (FXR),
CC where the antisense compound specifically hybridizes with and inhibits
CC the expression of FXR. The composition and methods are useful for
CC inhibiting the expression of FXR (Farnesoid X receptor) in cells or
CC tissues, or for treating diseases or conditions associated with FXR, such
CC as diabetes, immunological disorders, cardiovascular disorders, e.g.
CC dyslipidemia and its symptoms, atherosclerosis, low HDL (high density
CC lipoprotein), elevated LDL (low density lipoprotein) or
CC hypercholesterolemia, gallstones, hypertriglyceridemia, obesity,
CC neurological disorders, or ischemia/reperfusion injury. In addition, the
CC composition is used for diagnostics, prophylaxis, or as research reagents
CC or kits. This sequence corresponds to an antisense oligonucleotide of the
CC invention.
XX Sequence 20 BP; 5 A; 9 C; 2 G; 4 T; 0 U; 0 Other;
SQ Query Match 0.8%; Score 14; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 9.5e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1658 ACACCCCTCACAGG 1671
DB |||||||||||
7 ACACCCCTCACAGG 20

RESULT 1289
ADP26777/c
ID ADP26777 standard; DNA; 20 BP.
XX AC ADP26777;
XX 26-AUG-2004 (first entry)
XX Human Ephrin-B2 DNA antisense oligonucleotide #14.
XX Human; Ephrin-B2; ss; antisense oligonucleotide;
XX phosphorothioate linkage; 2'-O-methoxyethyl sugar moiety;
XX 5-methylcytosine; hyperproliferative disorder; cancer; cytostatic.
XX Homo sapiens.
XX US2004110150-A1.
XX 10-JUN-2004.
XX 10-DEC-2002; 2002US-00316516.
XX 10-DEC-2002; 2002US-00316516.
XX (ISIS-) ISIS PHARM INC.
XX Koller E, Dobie KW;
XX WPI; 2004-440339/41.
XX New oligonucleotide compound that inhibits expression of Ephrin-B2,
XX useful for preparing a composition for treating hyperproliferative
XX disorder, e.g. cancer.
XX Example 15; SEQ ID NO 26; 69pp; English.
XX The invention relates to a compound targeted to a nucleic acid molecule

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CC encoding the human Ephrin-B2 polypeptide. The compound is an antisense  
 CC oligonucleotide that specifically hybridizes with the nucleic acid and  
 CC inhibits expression of the polypeptide. The antisense oligonucleotide  
 CC comprises at least one modified internucleoside linkage i.e. a  
 CC phosphorothioate linkage, at least one modified sugar moiety, preferably  
 CC a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase  
 CC comprising a 5-methylcytosine. The antisense compounds are useful for  
 CC modulating the expression of the human Ephrin-B2 polypeptide and in  
 CC preparation of a composition for treating hyperproliferative disorders,  
 CC e.g. cancer. This sequence represents an antisense oligonucleotide  
 CC targeted to DNA encoding the human Ephrin-B2 polypeptide of the  
 CC invention.

XX Sequence 20 BP; 5 A; 4 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 20;  
 Best Local Similarity 100.0%; Pred. No. 9.5e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 847 TACCTGGACAGGA 860  
 DB 14 TACCTGGACAGGA 1

RESULT 1290  
 AAX09162  
 ID AAX09162 standard; DNA; 21 BP.

AC AAX09162;

DT 24-MAR-1999 (first entry)

XX Human biallelic polymorphic marker upstream primer #42.

XX Polymorphism; biallelic; human; forensic; paternity testing; disease;  
 KW detection; phenotypic typing; characteristic; infection; hereditary;  
 KW autoimmune disease; cancer; inflammation; drug; therapy; medicament;  
 KW treatment; marker; primer; ss.

XX Synthetic.  
 OS Homo sapiens.

XX WO9820165-A2.

XX 14-MAY-1998.

XX 05-NOV-1997; 97WO-US020313.

XX 06-NOV-1996; 96US-0030455P.

XX (WHED ) WHITEHEAD INST BIOMEDICAL RES.

XX Lander ES, Wang D, Hudson T;

XX WPI; 1998-286974/25.

XX New isolated nucleic acid segments from the human genome - used for  
 PT determining polymorphic forms for use in e.g. forensics, paternity  
 PT testing or phenotypic typing for disease.

XX Claim 15; Page 51; 310pp; English.

XX AAX09121-X10268 are allele-specific oligonucleotide primers used in the  
 CC isolation of various biallelic polymorphic markers found in the human  
 CC genome (represented in AAX10269-X12937). These primers can be used in a  
 CC method for determining polymorphic forms in an individual for use in e.g.  
 CC forensics, paternity testing or for phenotypic typing for diseases such  
 CC as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular  
 CC dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial  
 CC hypercholesterolemia, polycystic kidney disease, hereditary  
 CC spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary  
 CC haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos  
 CC syndrome, osteogenesis imperfecta, acute intermittent porphyria,

CC autoimmune diseases, inflammation, cancer, diseases of the nervous  
 CC system, infection by pathogenic microorganisms, and characteristics such  
 CC as longevity, appearance (e.g. baldness, obesity), strength, speed,  
 CC endurance, fertility, and susceptibility or receptivity to particular  
 CC drugs or therapeutic treatments. The isolated polymorphic nucleic acid  
 CC segments can also be used to produce medicaments for the treatment or  
 CC prophylaxis of such diseases

SQ Sequence 21 BP; 7 A; 4 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 9.8e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 714 ACTGGAACATGAAG 727  
 DB 4 ACTGGAACATGAAG 17

RESULT 1291

AAV08201

ID AAV08201 standard; DNA; 21 BP.

XX AAV08201;

XX 27-JAN-1999 (first entry)

DE PCR primer ABCR.EXON7:F for ABCR coding sequence.

XX ATP binding cassette; ABC transporter; ABCR; Stargardt Disease; therapy;  
 KW Fundus Flavimaculatus; age-related macular degeneration; diagnosis;  
 KW PCR primer; ss.

XX Synthetic.

OS Homo sapiens.

XX WO9837764-A1.

XX 03-SEP-1998.

XX 27-FEB-1998; 98WO-US003895.

XX 27-FEB-1997; 97US-0039388P.

XX (BAYU ) BAYLOR COLLEGE MEDICINE.

XX (UJJO ) UNIV JOHNS HOPKINS.

XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.

XX (UTAH ) UNIV UTAH.

XX Alliknets R, Anderson KL, Dean M, Leppart M, Lewis RA, Li Y;  
 PI Lapski JR, Nathans J, Rattner A, Shroyer NF, Singh N, Smallwood PM;  
 PI Sun H;

XX WPI; 1998-495375/42.

XX Retina-specific ATP-binding cassette transporter and DNA - useful for,  
 PT e.g. diagnosis and treatment of macular degeneration, such as in  
 PT Stargardt Disease, Fundus Flavimaculatus and age-related degeneration.

XX Claim 41; Page 27; 79pp; English.

XX This sequence represents a PCR primer for DNA encoding the human retina  
 CC specific ATP binding cassette transporter (ABCR) of the invention. ABCR  
 CC may be used in compositions for screening agents that alters ABCR. The  
 CC agent can inhibit Stargardt Disease, Fundus Flavimaculatus and age-  
 CC related macular degeneration (MD). Primers (such as this sequence) and  
 CC probes for the ABCR DNA can be used in a diagnostic kit for detecting MD

SQ Sequence 21 BP; 8 A; 3 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 9.8e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```
QY 704 AGGAGATCAGACTG 717
Db |||||
  8 AGGAGATCAGACTG 21

RESULT 1292
AAX35653/c
ID AAX35653 standard; DNA; 21 BP.
XX AC
XX AAX35653;
XX
DT 09-JUL-1999 (first entry)
XX
DE PCR primer used to amplify human heparanase cDNA.
XX
KW Heparanase; hpa; modulator; heparin-binding growth factor;
KW cellular response; cytokine; cell interaction; plasma lipoprotein;
KW cellular susceptibility; infection; disintegration;
KW neurodegenerative plaque; wound healing; angiogenesis; restenosis;
KW atherosclerosis; inflammation; neurodegenerative disease; neutralise;
KW plasma heparin; micrometastasis; autoimmune lesion; renal failure;
KW PCR primer; ss.
XX
OS Synthetic.
XX
XX WO9911798-A1.
XX
XX 11-MAR-1999.
XX
XX 31-AUG-1998; 98WO-US017954.
XX
XX 02-SEP-1997; 97US-00922170.
XX
XX 02-JUL-1998; 98US-00109386.
XX
XX (INSI-) INSIGHT STRATEGY & MARKETING LTD.
XX (HADA-) HADASIT MEDICAL RES SERVICES & DEV.
XX (FRIE/) FRIEDMAN M M.
XX
XX Pecker I, Vlodayvsky I, Feinstein E;
XX WPI; 1999-302255/25.
XX
XX New human polynucleotide useful for treating angiogenesis, restenosis,
XX and inflammation.
XX
XX Example 7; Page 30; 63pp; English.
XX
XX The specification describes a polypeptide having heparanase (hpa)
XX activity. The recombinant protein is used as a modulator of heparin-
XX binding growth factors, cellular responses to heparin-binding growth
XX factors and cytokines, cell interaction with plasma lipoproteins,
XX cellular susceptibility to viral, protozoal and bacterial infections or
XX disintegration of neurodegenerative plaques. Heparanase may be useful for
XX conditions such as wound healing, angiogenesis, restenosis,
XX atherosclerosis, inflammation, neurodegenerative diseases, and viral
XX infections. Mammalian heparanase can be used to neutralize plasma
XX heparin, and anti-heparanase antibodies may be applied for
XX immunodetection and diagnosis of micrometastases, autoimmune lesions, and
XX renal failure in biopsy specimens, plasma samples, and body fluids. The
XX present PCR primer was used to amplify hpa cDNA, in the course of the
XX invention
XX
XX Sequence 21 BP; 6 A; 8 C; 6 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14; DB 1; Length 21;
XX Best Local Similarity 100.0%; Pred. No. 9.8e+02;
XX Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 273 TGCTGCTCTCTGGGG 286
Db |||||
  14 TGCTGCTCTCTGGGG 1

RESULT 1294
AAH28645
ID AAH28645 standard; DNA; 21 BP.
XX AC
XX AAH28645;
XX
```

```
RESULT 1293
AAH75055/c
ID AAA75055 standard; DNA; 21 BP.
XX AC
XX AAA75055;
XX
DT 15-JAN-2001 (first entry)
XX
DE PCR primer hpl-629 used to amplify human cDNA encoding heparanase.
XX
XX Human; heparanase; gene therapy; tumour; inflammation; autoimmunity;
XX heparin-binding growth factor; cytokine; neurodegenerative plaque;
XX wound healing; infection; burn; angiogenesis; restenosis;
XX atherosclerosis; inflammation; neurodegenerative disease;
XX Gerstmann-Straussler Syndrome; Creutzfeldt-Jakob disease; PCR primer; ss.
XX
XX Homo sapiens.
XX
XX WO2000052178-A1.
XX
XX 08-SEP-2000.
XX
XX 14-FEB-2000; 2000WO-US003542.
XX
XX 01-MAR-1999; 99US-00258892.
XX
XX (INSI-) INSIGHT STRATEGY & MARKETING LTD.
XX (HADA-) HADASIT MEDICAL RES SERVICES & DEV.
XX (FRIE/) FRIEDMAN M M.
XX
XX Pecker I, Vlodayvsky I, Feinstein E;
XX WPI; 2000-579289/54.
XX
XX New polynucleotides encoding a polypeptide having heparanase activity,
XX useful in wound healing and in gene therapy, particularly in treating
XX tumor, inflammation, autoimmunity, neurodegenerative diseases.
XX
XX Example 6; Page 53; 152pp; English.
XX
XX The present PCR primer was used to amplify a human cDNA sequence, which
XX encoded a protein with heparanase catalytic activity. The heparanase
XX (hpa) polynucleotide is useful in gene therapy, particularly in treating
XX tumor, inflammation or autoimmunity. Particularly, the polynucleotide is
XX useful in modulating the bioavailability of heparin-binding growth
XX factors, cellular responses to heparin-binding growth factors (e.g. bFGF)
XX and cytokines (e.g. interleukin (IL)-8), cell interaction with plasma
XX lipoproteins, cellular susceptibility to certain viral and some bacterial
XX and protozoa infections, or disintegration of neurodegenerative plaques.
XX The polynucleotide is also useful in wound healing (e.g. thermal,
XX chemical or radiation burns), and in the treatment of angiogenesis,
XX restenosis, atherosclerosis, inflammation, neurodegenerative diseases
XX (Gerstmann-Straussler Syndrome or Creutzfeldt-Jakob disease), and some
XX viral, bacterial or protozoa infections
XX
XX Sequence 21 BP; 6 A; 8 C; 6 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14; DB 1; Length 21;
XX Best Local Similarity 100.0%; Pred. No. 9.8e+02;
XX Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 273 TGCTGCTCTCTGGGG 286
Db |||||
  14 TGCTGCTCTCTGGGG 1

RESULT 1294
AAH28645
ID AAH28645 standard; DNA; 21 BP.
XX AC
XX AAH28645;
XX
```

```

DT 17-JUL-2001 (first entry)
XX Human interleukin-13 coding sequence fragment PCR primer #20.
DE
XX
KW Human; interleukin-13; IL13; single nucleotide polymorphism; SNP; cancer;
KW inflammation; immune disorder; cytokine; asthma; chromosome 5q31;
KW fibrosis; forensic; disease susceptibility; drug screening; PCR primer;
KW ss.
XX
OS Homo sapiens.
XX
XX WO200123410-A2.
PN
XX
PD 05-APR-2001.
XX
XX 27-SEP-2000; 2000WO-US026556.
PF
XX
XX 28-SEP-1999; 99US-0156489P.
PR
XX (GENA-) GENAISSANCE PHARM INC.
PA
XX Chew A, Denton RR, Nandabalan K, Stephens JC;
PI
XX WPI; 2001-343160/36.
XX
XX Novel polynucleotide comprising single nucleotide polymorphisms in human
PT interleukin-13 gene is useful for studying expression and function of
PT interleukin-13, as well as diagnosing and treating cancer, inflammatory,
PT and immune disorders.
XX
XX Example 1; Page 32; 85pp; English.
XX
XX The present invention provides the protein, cDNA and genomic sequences of
CC human interleukin-13 (IL13), and describes the single nucleotide
CC polymorphisms (SNPs) found within the gene, which is found on chromosome
CC 5q31. IL13 is a pro-inflammatory cytokine thought to be involved in the
CC pathogenesis of asthma and other immune and inflammatory diseases. The
CC IL13 sequences and the SNPs identified can be used in drug screening, to
CC determine an individual's susceptibility to disease, in forensic and
CC paternity testing, and to identify treatments for cancer, immune and
CC inflammatory diseases, including asthma and diseases characterised by
CC fibrosis. The present sequence is an IL13 fragment PCR primer
XX
XX Sequence 21 BP; 5 A; 7 C; 5 G; 4 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.8e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 843 TGAGTACCTGGACA 856
Db 5 TGAGTACCTGGACA 18
|||||
|||||

RESULT 1295
ABL53717
ID ABL53717 standard; DNA; 21 BP.
XX
XX ABL53717;
XX
XX 24-JUN-2002 (first entry)
DT
XX PGK1 PCR primer oVT201.
DE
XX
XX Gene identification; cell proliferation; cancer; arteriosclerosis;
KW psoriasis; rheumatoid arthritis; restenosis; gene therapy; cytostatic;
KW antiarteriosclerotic; antipsoriatic; antiarthritic; antirheumatic;
KW vasotropic; diagnosis; perturbation; PGK1; PCR; primer; ss.
XX
XX Saccharomyces cerevisiae.
OS
XX
XX US2002019005-A1.
PN
XX

```

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PD 14-FEB-2002.
XX
XX 02-AUG-2001; 2001US-00921101.
PF
XX
XX 18-FEB-1999; 99US-00252204.
PR
XX (ARCA-) ARCARIS INC.
PA
XX Kamb CA;
PI
XX
XX WPI; 2002-328583/36.
PN
XX
XX Identifying cell proliferation genes for treating diseases related to
PT unregulated proliferation, by selecting revertant cell lines, analyzing
PT their gene expression pattern and identifying differentially expressed
PT genes.
XX
XX Example 4; Page 30; 42pp; English.
XX
XX The present invention relates to selection systems for the identification
CC of cell proliferation genes based on functional analysis. A process is
CC provided for the identification of a cell proliferation promoting
CC activity, the isolation of genes involved in such activity, and the use
CC of these genes for the diagnosis or treatment of a disease associated
CC with excessive cell proliferation. The cell proliferation gene may be an
CC oncogene, a dominant transforming gene, a tumour suppressor gene or a
CC gene involved in the control of apoptosis. Antibodies, peptides and
CC nucleic acids can be designed to specifically interfere with the function
CC of the identified gene and/or its gene product for the treatment of
CC cancer, arteriosclerosis, psoriasis, rheumatoid arthritis and restenosis
CC (all claimed). In an embodiment of the invention, growth-proficient
CC revertants are induced using mutagenic agents termed perturbagens.
CC Revertant cells are selected, and the gene(s) that allow escape from
CC arrest are identified. The present sequence is that of PCR primer oVT201,
CC which is homologous to a region within the PK1 3' untranslated region.
CC The primer was used in an example from the invention in which the
CC pheromone response pathway of Saccharomyces cerevisiae was used to
CC determine the general efficacy of a screen for perturbagen molecules
XX
XX Sequence 21 BP; 6 A; 1 C; 8 G; 6 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 14; DB 1; Length 21;
Best Local Similarity 100.0%; Pred. No. 9.8e+02;
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 8 AGCGTAAAGGATCG 21
Db 6 AGCGTAAAGGATCG 19
|||||
|||||

RESULT 1296
ABS57693
ID ABS57693 standard; DNA; 21 BP.
XX
XX ABS57693;
XX
XX 27-FEB-2003 (first entry)
DT
XX
XX S. cerevisiae PGK1 PCR primer oVT201.
DE
XX
XX Cell proliferation; cellular target; viral growth; perturbation; PCR;
KW primer; ss.
KW
XX
XX Saccharomyces cerevisiae.
OS
XX
XX US2002132229-A1.
PN
XX
XX 19-SEP-2002.
PD
XX
XX 14-AUG-2001; 2001US-00929563.
PF
XX
XX 19-AUG-1996; 96US-00699266.
PR
XX 04-MAR-1997; 97US-00812994.

```



PR 19-AUG-1997; 97WO-US014514.  
 PR 06-NOV-1997; 97US-00965477.  
 PR 26-FEB-1999; 99US-00259155.  
 XX  
 FA (ARCA-) ARCARIS INC.  
 XX  
 PI Kamb CA, Poritz MA;  
 XX  
 DR WPI; 2003-138536/13.  
 XX  
 PT Identifying cell proliferation gene involved in viral growth, comprises  
 PT identifying cell that continues to proliferate within virally infected  
 PT cells, and identifying corresponding cell proliferation gene in  
 PT identified cell.  
 XX  
 PS Example 4; Page 30; 43pp; English.  
 XX  
 CC This invention describes a novel method for identifying a cell  
 CC proliferation gene or a cellular target involved in viral growth within a  
 CC cell. The method comprises: (a) identifying within a number of virally  
 CC infected cells a cell that continues to proliferate; and (b) identifying  
 CC within the cell that continues to proliferate a corresponding cell  
 CC proliferation gene or cellular target. The invention also describes a  
 CC method for identifying a perturbation that inhibits viral growth. The cell  
 CC proliferation gene identified by the above mentioned method is useful for  
 CC the diagnosis or treatment of a disease associated with aberrant or  
 CC unregulated cell proliferation, or for the development of antisense  
 CC approaches and ribozymes. As the method involves positive selection,  
 CC i.e., selection for growth, rather than cessation of growth, it is easier  
 CC to identify and separate growing cells from growth arrested cells than to  
 CC isolate non-transformed revertants. Since cultured tumour cell lines grow  
 CC vigorously in culture, the method can be performed in a time-efficient  
 CC manner, as growing colonies can be identified, isolated, and analysed  
 CC very quickly. Redundancy in growth control pathways is not a problem in  
 CC the growth suppressed tumour cell lines provided and used with the method  
 CC of the invention, as is the case in assays based on selection for non-  
 CC transformed cells. This sequence represents a PCR primer used with the  
 CC primer represented in ABS57694 which is capable of amplifying the yeast  
 CC (Saccharomyces cerevisiae) PGK1 3'UTR which is used in a construct to  
 CC identify perturbation genes as described in the method of the invention  
 XX  
 SQ Sequence 21 BP; 6 A; 1 C; 8 G; 6 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 9.8e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 8 AGCGTAAAGGATGG 21  
 Db |||||  
 6 AGCGTAAAGGATGG 19  
 RESULT 1297  
 ADD14266  
 ID ADD14266 standard; DNA; 21 BP.  
 XX  
 AC ADD14266;  
 XX  
 DT 01-JAN-2004 (first entry)  
 XX  
 DE Human src biomarker forward PCR primer SEQ ID NO:455.  
 XX  
 KW predictor set; protein tyrosine kinase activity modulator;  
 KW protein tyrosine kinase pathway; protein tyrosine kinase; cytostatic;  
 KW gene therapy; drug sensitivity; genetic profile; cancer; human;  
 KW PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 FN WO2003062395-A2.  
 XX  
 PD 31-JUL-2003.

XX 17-JAN-2003; 2003WO-US001981.  
 XX  
 PR 18-JAN-2002; 2002US-0350061P.  
 XX  
 PA (BRIM ) BRISTOL-MYERS SQUIBB CO.  
 XX  
 PI Huang F, Fairchild CR, Lee FY, Shaw P;  
 XX  
 DR WPI; 2003-636735/60.  
 XX  
 PT New polynucleotides and polypeptides for predicting the activity of  
 PT compounds that interact with protein tyrosine kinases and/or protein  
 PT tyrosine kinase pathways.  
 XX  
 PS Example 2; SEQ ID NO 455; 139pp; English.  
 XX  
 CC The present invention describes a predictor set comprising a plurality of  
 CC polynucleotides or polypeptides whose expression pattern is predictive of  
 CC the response of cells to treatment with a compound that modulates protein  
 CC tyrosine kinase activity or members of the protein tyrosine kinase  
 CC pathway. Also described: (1) predicting whether a compound is capable of  
 CC modulating the activity of cells, comprising obtaining a sample of cells,  
 CC determining whether the cells express a plurality of markers, and  
 CC correlating the expression of the markers to the compound's ability to  
 CC modulate the activity of the cells; (2) a plurality of cell lines for  
 CC identifying polynucleotides and polypeptides whose expression levels  
 CC correlate with compound sensitivity or resistance of cells associated  
 CC with a disease state; and (3) identifying polynucleotides and  
 CC polypeptides that predict compound sensitivity or resistance of cells  
 CC associated with a disease state, comprising subjecting the plurality of  
 CC cell lines to one or more compounds, analysing the expression pattern of  
 CC a microarray of polynucleotides or polypeptides, and selecting  
 CC polynucleotides or polypeptides that predict the sensitivity or  
 CC resistance of cells associated with a disease state by using the  
 CC expression pattern of the microarray. The polynucleotides and  
 CC polypeptides have cytostatic activities, and can be used in gene therapy.  
 CC The polynucleotides and polypeptides are useful in predicting the  
 CC activity of compounds that interact with protein tyrosine kinases and/or  
 CC protein tyrosine kinase pathways. These may be used in determining drug  
 CC sensitivity in patients to allow the development of individualized  
 CC genetic profiles which aid in treating diseases and disorders (e.g.  
 CC cancer) based on patient response at a molecular level. The present  
 CC sequence is used in the exemplification of the present invention.  
 XX  
 SQ Sequence 21 BP; 6 A; 5 C; 6 G; 4 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 14; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 9.8e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 245 GCAGTGACCTGGA 258  
 Db |||||  
 7 GCAGTGACCTGGA 20  
 RESULT 1298  
 ACH00878  
 ID ACH00878 standard; DNA; 21 BP.  
 XX  
 AC ACH00878;  
 XX  
 DT 12-FEB-2004 (first entry)  
 XX  
 DE L monocytogenes CtsR protein fragment coding sequence.  
 XX  
 KW CtsR; glycine-rich region; stress tolerance; virulence; motility;  
 KW fermentation; vaccine; antibacterial; Class III stress gene regulator;  
 KW gene; ds.  
 XX  
 OS Listeria monocytogenes.  
 XX  
 PH Key Location/Qualifiers

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FT CDS 1. -21
FT /*tag= a "CtSR glycine-rich region"
FT /product= "CtSR glycine-rich region"
FT /partial
FT /note= "no start or stop codon"
XX
XX WO2003076463-A2.
XX
XX 18-SEP-2003.
XX
XX 11-MAR-2003; 2003WO-NL000178.
XX
XX 11-MAR-2002; 2002EP-00075946.
XX
XX (WAGE-) WAGENINGEN CENT FOOD SCI.
XX
XX Karatzas KA, Bennik MHJ, Abbe T, Kleerebezem M, De Vos WM;
XX WPI; 2003-731817/69.
XX P-PSDB; ABG75076.
XX
XX New nucleic acid molecule comprising a nucleotide sequence encoding an
XX altered Class III stress gene regulator (CtSR) protein of a Gram-positive
XX bacterium, useful in a fermentation process, as a probiotic or as a live
XX oral vaccine.
XX
XX Example; Fig 1; 46pp; English.
XX
XX The present invention relates to a nucleic acid molecule which encodes an
XX altered Class III stress gene regulator (CtSR) protein of a Gram-positive
XX bacterium. Such an altered CtSR protein has an alteration in the
XX conserved glycine-rich region that corresponds to amino acid positions 61
XX -64 of the normal CtSR protein. The alteration confers to the altered
XX CtSR protein increased stress tolerance, reduced virulence or reduced
XX mobility of a Gram positive bacterium in which the altered CtSR protein
XX is expressed as sole CtSR protein. The coding sequence encoding an
XX altered CtSR protein is useful in a fermentation process, as a probiotic
XX or as a live oral vaccine. The present sequence is a coding sequence for
XX the fragment of the Listeria monocytogenes CtSR gene which encodes the
XX glycine-rich region
XX
XX Sequence 21 BP; 4 A; 2 C; 9 G; 6 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14; DB 1; Length 21;
XX Best Local Similarity 100.0%; Pred. No. 9.8e+02; Mismatches 0; Gaps 0;
XX Matches 14; Conservative 0; Indels 0;
XX
XX QY 230 GTGGTGGTGGTGGC 243
XX |||||
XX 5 GTGGTGGTGGTGGC 18
XX
XX RESULT 1299
XX ADG8807/c
XX ID ADG88807 standard; DNA; 21 BP.
XX
XX AC ADG88807;
XX
XX 11-MAR-2004 (first entry)
XX
XX Human hpa specific antisense RACE PCR primer, hpl-629.
XX
XX Wound healing; heparanase; ulcer; burn; laceration; surgical incision;
XX necrosis; pressure wound; diabetic ulcer; angiogenesis; human; therapy;
XX RACE; rapid amplification of cDNA end; PCR; primer; ss.
XX
XX Homo sapiens.
XX
XX US2003161823-A1.
XX
XX 28-AUG-2003.
XX
XX 14-JAN-2003; 2003US-00341582.
XX

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XX 31-AUG-1998; 98WO-US017954.
XX 01-MAR-1999; 99US-00258892.
XX 06-FEB-2001; 2001US-00776874.
XX 05-SEP-2001; 2001WO-IL000830.
XX 19-NOV-2001; 2001WO-00988113.
XX
XX (ILAN/) ILAN N.
XX (VLOD/) VL0DAVSKY I.
XX (YACO/) YACOBV-ZEEVI O.
XX (PECK/) PECKER I.
XX (FEIN/) FEINSTEIN E.
XX
XX Ilan N, Vlodaysky I, Yacoby-Zeevi O, Pecker I, Feinstein E;
XX WPI; 2003-897910/82.
XX
XX Composition for treating a wound comprising recombinant heparanase is
XX useful to induce or accelerate wound healing and induce or accelerate
XX angiogenesis.
XX
XX Example 6; SEQ ID NO 17; 143pp; English.
XX
XX The present invention relates to methods and compositions for inducing
XX and/or accelerating wound healing via the catalytic activity of
XX heparanase. The invention is used to induce or accelerate a healing
XX process, particularly of an ulcer, burn, laceration, surgical incision,
XX necrosis, pressure wound, diabetic ulcer and to induce or accelerate
XX angiogenesis. The present sequence is human hpa specific antisense RACE
XX PCR primer.
XX
XX Sequence 21 BP; 6 A; 8 C; 6 G; 1 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 14; DB 1; Length 21;
XX Best Local Similarity 100.0%; Pred. No. 9.8e+02; Mismatches 0; Gaps 0;
XX Matches 14; Conservative 0; Indels 0;
XX
XX QY 273 TGCTGCTCTCTGGGG 286
XX |||||
XX 14 TGCTGCTCTCTGGGG 1
XX
XX RESULT 1300
XX ADJ13969
XX ID ADJ13969 standard; DNA; 21 BP.
XX
XX AC ADJ13969;
XX
XX 20-MAY-2004 (first entry)
XX
XX Human DNA probe used to immobilise CpG methylated DNA SeqID 1096.
XX
XX probe; ss; chemical modification; methylation; array; CpG island;
XX tumour suppressor; p16; human; H69; H1618.
XX
XX Homo sapiens.
XX
XX US2003152950-A1.
XX
XX 14-AUG-2003.
XX
XX 27-JUN-2002; 2002US-00184085.
XX
XX 27-JUN-2001; 2001US-0301370P.
XX
XX (GARN/) GARNER H R.
XX (MINN/) MINNA J D.
XX (LUEB/) LUEBKE K J.
XX (BALO/) BALOG R P.
XX
XX Garner HR, Minna JD, Luebke KJ, Balog RP;
XX WPI; 2003-874843/81.
XX

```

XX Analysis of chemical modification of DNA involves obtaining sample of DNA  
PT to be analyzed, treating DNA with chemical reagents that result in  
PT different base sequences, and determining sequence of resulting DNA.  
XX  
PS Example 1; SEQ ID NO 1096; 210pp; English.  
XX  
CC This invention relates to a novel method for analysing chemically  
CC modified macromolecules. Specifically, it refers to a high throughput  
CC method for the parallel analysis of many potential sites of chemical  
CC modification (e.g. methylation) in DNA. The present invention describes  
CC treating the DNA with one or more chemical reagents that result in  
CC different base sequences depending upon the presence or absence of the  
CC modification of interest. Accordingly, a device comprising an array of  
CC probes is provided to hybridise with and select the altered DNA sequences  
CC that comprise the modifications of interest such as a CpG island. In  
CC particular, this invention refers to analysing the methylation pattern of  
CC a region of the promoter for the tumour suppressor gene p16 from two  
CC human lung tumour cell lines H69 and H1618. This oligonucleotide sequence  
CC is a human DNA probe used to immobilise CpG methylated DNA of the  
CC invention.  
XX  
SQ Sequence 21 BP; 4 A; 11 C; 3 G; 3 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 9.8e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 555 CCTCAGCGCGCGCC 568  
Db |||||  
8 CCTCAGCGCGCGCC 21  
RESULT 1301  
ADJ14006  
ID ADJ14006 standard; DNA; 21 BP.  
XX  
AC ADJ14006;  
XX  
DT 20-MAY-2004 (first entry)  
XX  
DE Human DNA probe used to immobilise CpG methylated DNA SeqID 1133.  
XX  
KW probe; ss; chemical modification; methylation; array; CpG island;  
KW tumour suppressor; p16; human; H69; H1618.  
XX  
OS Homo sapiens.  
XX  
FN US2003152950-A1.  
XX  
PD 14-AUG-2003.  
XX  
PF 27-JUN-2002; 2002US-00184085.  
XX  
PR 27-JUN-2001; 2001US-0301370P.  
XX  
PA (GARNER) GARNER H R.  
PA (MINN) MINNA J D.  
PA (LUEB) LUEBKE K J.  
PA (BALO) BALOG R P.  
XX  
PI Garner HR, Minna JD, Luebke KJ, Balog RP;  
XX  
DR WPI; 2003-874843/81.  
XX  
PT Analysis of chemical modification of DNA involves obtaining sample of DNA  
PT to be analyzed, treating DNA with chemical reagents that result in  
PT different base sequences, and determining sequence of resulting DNA.  
XX  
PS Example 1; SEQ ID NO 1133; 210pp; English.  
XX  
CC This invention relates to a novel method for analysing chemically  
CC modified macromolecules. Specifically, it refers to a high throughput

CC method for the parallel analysis of many potential sites of chemical  
CC modification (e.g. methylation) in DNA. The present invention describes  
CC treating the DNA with one or more chemical reagents that result in  
CC different base sequences depending upon the presence or absence of the  
CC modification of interest. Accordingly, a device comprising an array of  
CC probes is provided to hybridise with and select the altered DNA sequences  
CC that comprise the modifications of interest such as a CpG island. In  
CC particular, this invention refers to analysing the methylation pattern of  
CC a region of the promoter for the tumour suppressor gene p16 from two  
CC human lung tumour cell lines H69 and H1618. This oligonucleotide sequence  
CC is a human DNA probe used to immobilise CpG methylated DNA of the  
CC invention.  
XX  
SQ Sequence 21 BP; 4 A; 11 C; 3 G; 3 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 9.8e+02;  
Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 555 CCTCAGCGCGCGCC 568  
Db |||||  
7 CCTCAGCGCGCGCC 20  
RESULT 1302  
ADJ16386/c  
ID ADJ16386 standard; DNA; 21 BP.  
XX  
AC ADJ16386;  
XX  
DT 06-MAY-2004 (first entry)  
XX  
DE Human heparanase 5' RACE primer hpl-629.  
XX  
KW Human; ss; heparanase; PCR; primer; heparanase-dependent cancer; cancer;  
KW autoimmune reaction; inflammation.  
XX  
OS Homo sapiens.  
XX  
FN US2003236215-A1.  
XX  
PD 25-DEC-2003.  
XX  
PF 09-JUN-2003; 2003US-00456573.  
XX  
PR 31-AUG-1998; 98WO-US017954.  
PR 01-MAR-1999; 99US-00258892.  
PR 08-NOV-1999; 99US-00435739.  
XX  
PA (INSI-) INSIGHT STRATEGY & MARKETING LTD.  
PA (HADA-) HADASIT MEDICAL RES SERVICES & DEV.  
XX  
PI Pecker I, Vlodavsky I, Feinstein E;  
XX  
DR WPI; 2004-070610/07.  
XX  
PT New antisense oligonucleotide hybridizable with a polynucleotide encoding  
PT a polypeptide with heparanase activity, useful for treating diseases such  
PT as cancer and autoimmune disorders.  
XX  
PS Example 6; SEQ ID NO 17; 108pp; English.  
XX  
CC The invention relates to an antisense oligonucleotide (ASO) comprising a  
CC polynucleotide or a polynucleotide analogue of at least 10 bases being  
CC hybridisable in vivo, under physiological conditions, with a portion of  
CC a polynucleotide strand encoding a polypeptide having heparanase  
CC catalytic activity. Also included are a method of in vivo downregulating  
CC heparanase activity (comprising administering the ASO in vivo), a method  
CC of treating a subject suffering from a pathological condition  
CC (characterised by heparanase activity, comprising administering ASO to  
CC the subject), a pharmaceutical composition comprising the ASO and a  
CC carrier, an antisense nucleic acid construct (comprising a promoter  
CC sequence and a polynucleotide sequence directing the synthesis of an

CC antisense RNA sequence of at least 10 bases being hybridisable in vivo,  
 CC under physiological conditions, with a polynucleotide strand encoding a  
 CC polypeptide having heparanase catalytic activity), a method of in vivo  
 CC downregulating heparanase activity (comprising administering in vivo the  
 CC antisense nucleic acid construct), a pharmaceutical composition  
 CC comprising the antisense nucleic acid construct and a carrier, and an  
 CC antisense oligonucleotide comprising a polynucleotide or a polynucleotide  
 CC analogue of at least 10 bases being hybridisable in vivo, under  
 CC physiological conditions, with a portion of a polynucleotide strand being  
 CC characterised by forming at least a portion of an untranslated region  
 CC (UTR) for a polynucleotide strand encoding a polypeptide having  
 CC heparanase catalytic activity. The methods and compositions of the  
 CC present invention are useful for the prevention and/or treatment of  
 CC diseases or conditions associated with aberrant heparanase activity, such  
 CC as heparanase-dependent cancer, cancer, autoimmune reaction and  
 CC inflammation. The present sequence is a PCR primer used in the isolation  
 CC of human heparanase cDNA.

SQ Sequence 21 BP; 6 A; 8 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 9.8e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 273 TCGTCTCTCTGGG 286  
 |||||  
 DB 14 TCGTCTCTCTGGG 1

RESULT 1303  
 ADM48723/c  
 ID ADM48723 standard; DNA; 21 BP.  
 XX  
 AC ADM48723;  
 XX  
 DT 03-JUN-2004 (first entry)  
 XX  
 DE Human hpa DNA amplifying PCR primer, hpl-629.  
 XX  
 KW Transgenic animal; heparanase; cancer; viral infection; restenosis;  
 KW neurodegenerative disease; atherosclerosis; pulmonary disorder; hpa; PCR;  
 KW primer; human; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003217375-A1.  
 XX  
 PD 20-NOV-2003.  
 XX  
 PF 24-FEB-2003; 2003US-00371218.  
 XX  
 PR 31-AUG-1998; 98WO-US017954.  
 PR 01-MAR-1999; 99US-00258892.  
 PR 06-FEB-2001; 2001US-00776874.  
 PR 19-NOV-2001; 2001US-00988113.  
 XX  
 PA (ZCHA/) ZCHARIA E.  
 PA (VLOD/) VLODAVSKY I.  
 PA (METZ/) METZGER S.  
 PA (PECK/) PECKER I.  
 PA (ILAN/) ILAN N.  
 PA (CHAJ/) CHAJEK-SHAUL T.  
 PA (GOLD/) GOLDSHMIDT O.  
 XX  
 PI Zcharia E, Vladavsky I, Metzger S, Pecker I, Ilan N;  
 PI Chajek-Shaul T, Goldshmidt O;  
 XX  
 DR WPT; 2004-021918/02.  
 XX  
 XX New transgenic non-human animal expressing heparinase, useful as models  
 PT for human disease, such as cancers, viral infection, neurodegenerative  
 PT diseases, restenosis, atherosclerosis and pulmonary disorders.

PS Example 6; SEQ ID NO 17; 106pp; English.

XX The present invention relates to a transgenic non-human animal whose  
 CC genome comprises an exogenous polynucleotide sequence, including a  
 CC promoter active in tissues of the non-human, a region encoding a human  
 CC heparanase, where the promoter and the region encoding human heparanase  
 CC are operably linked in the exogenous polynucleotide such that human  
 CC heparanase is expressed in at least a portion of the cells of the non-  
 CC human animal. The methods and compositions of the present invention are  
 CC useful for the production of transgenic animals expressing heparanase, to  
 CC be used as models for human diseases such as cancers, viral infection,  
 CC restenosis, neurodegenerative diseases, atherosclerosis and pulmonary  
 CC disorders. The present sequence is human hpa DNA amplifying PCR primer  
 CC used in the exemplification of the invention.

XX Sequence 21 BP; 6 A; 8 C; 6 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 21;  
 Best Local Similarity 100.0%; Pred. No. 9.8e+02;  
 Matches 14; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 273 TCGTCTCTCTGGG 286  
 |||||  
 DB 14 TCGTCTCTCTGGG 1

RESULT 1304  
 ADM69583/c  
 ID ADM69583 standard; DNA; 21 BP.  
 XX  
 AC ADM69583;  
 XX  
 DT 03-JUN-2004 (first entry)  
 XX  
 DE Plant gene polymorphism marker related primer, SEQ ID 462.  
 XX  
 KW Primer; variation mapping; mutation mapping; plant;  
 KW gene polymorphism marker; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN JP2003289895-A.  
 XX  
 PD 14-OCT-2003.  
 XX  
 PF 31-JAN-2003; 2003JP-00024620.  
 XX  
 PR 01-FEB-2002; 2002JP-00025338.  
 XX  
 PA (RIKA) RIKAGAKU KENKYUSHO.  
 PA (SAIM-) SAI MEDIA KK.  
 PA (MATS/) MATSUI M.  
 PA (NAKA/) NAKAZAWA M.  
 XX  
 DR WPI; 2004-126231/13.  
 XX  
 PT A primer set and method useful for mapping at least the  
 PT variation/mutation part of a plant gene using a gene polymorphism marker.  
 XX  
 PS Claim 7; SEQ ID NO 462; 120pp; Japanese.

CC The present invention relates to a primer set and method for mapping at  
 CC least the variation/mutation part of a plant gene using a gene  
 CC polymorphism marker. A mutation site of the plant gene is mapped by  
 CC utilizing a genetic polymorphism marker as follows: (a) genomic DNA is  
 CC prepared from a plant homozygously having a mutation to be an object of  
 CC the mapping; (b) A forward primer 1 containing a base corresponding to  
 CC the gene polymorphic maker of one ecotype plant, a forward primer 2  
 CC containing a base corresponding to the genetic polymorphism of the other  
 CC ecotype plant and a reverse primer 3 based on the base sequence common  
 CC with both the ecotype plants are prepared; (c) two kinds of  
 CC oligonucleotides emitting fluorescence of different colors when the  
 CC genetic polymorphism marker is detected are prepared; (d) an

CC amplification reaction of the genomic DNA is carried out in the presence  
CC of the primers 1, 2 and 3 and the two kinds of the oligonucleotides; (e)  
CC the fluorescence intensity emitted from the resultant reactional product  
CC is detected and (f) the position on the genome of the mutation site is  
CC determined from the results of detection. The present sequence is a  
CC primer, used to illustrate the invention.

XX SQ Sequence 21 BP; 4 A; 7 C; 3 G; 7 T; 0 U; 0 Other;  
Query Match 0.8%; Score 14; DB 1; Length 21;  
Best Local Similarity 100.0%; Pred. No. 9.8e+02; Mismatches 0; Indels 0; Gaps 0;  
Matches 14; Conservative 0;

QY 868 CAGTACCTGGATCA 881  
DB 18 CAGTACCTGGATGA 5

RESULT 1305  
ADP15685  
ID ADP15685 standard; DNA; 25 BP.

XX AC ADP15685;

DT 26-AUG-2004 (first entry)

DE Renal cell carcinoma differentially expressed gene probe #2090.

KW ss; diagnosis; non-blood disease; solid tumor; gene expression;  
KW peripheral blood mononuclear cell; renal cell carcinoma; prostate cancer;  
KW head/neck cancer; differential expression; probe.

XX OS Homo sapiens.

XX PN WO2004048933-A2.

XX FD 10-JUN-2004.

XX PF 21-NOV-2003; 2003WO-US037481.

XX PR 21-NOV-2002; 2002US-0427982P.

XX PR 03-APR-2003; 2003US-0459782P.

XX PA (AMHP ) WYETH.

XX PA (TWIN/) TWINE N C.

XX PA (BURC/) BURCZYNSKI M E.

XX PA (TREP/) TREPICCHIO W L.

XX PA (DORN/) DORNER A.

XX PA (STOV/) STOVER J A.

XX PA (SLONI/) SLONI D K.

XX PI Twine NC, Burczynski ME, Trepicchio WL, Dorner A, Stover JA;

XX PI Sloni DK;

XX DR WPI; 2004-460799/43.

XX Diagnosing non-blood disease such as solid tumor, involves comparing  
XX differential expression profile of specific genes in peripheral blood  
XX sample of subject with reference expression profile of specific genes.  
XX Disclosure; SEQ ID NO 2421; 350pp; English.

XX The invention relate to a method of diagnosing (M1) non-blood disease  
XX such as solid tumor by providing peripheral blood sample of human having  
XX non-blood disease, and comparing an expression profile of specific genes  
XX in the peripheral blood sample to reference expression profile of the  
XX genes, where each of the genes is differentially expressed in peripheral  
XX blood mononuclear cells (PBMCs) of patients having the disease as  
XX compared to PBMCs of normal humans. The method is useful for diagnosing  
XX non-blood disease such as solid tumor. The solid tumor is chosen from  
XX renal cell carcinoma (RCC), prostate cancer and head/neck cancer. The  
XX peripheral blood sample comprises enriched PBMCs. The peripheral blood  
XX sample is a whole blood sample (claimed). (M1) is useful for identifying

CC genes that are differentially expressed in peripheral blood samples  
CC isolated at different stages of progression, development or treatment of  
CC RCC and/or other solid tumors. This sequence corresponds to a probe to  
CC detect a gene that is differentially expressed and detected by the method  
XX of the invention.

SQ Sequence 25 BP; 6 A; 6 C; 4 G; 9 T; 0 U; 0 Other;

Query Match 0.8%; Score 14; DB 1; Length 25;  
Best Local Similarity 77.3%; Pred. No. 1.1e+03;  
Matches 17; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 1691 TCCTGCTTACTCTCTGCTAC 1712

DB 2 TTCCGTGCTTATGTCAGTCTAC 23

RESULT 1306

AAT53444

ID AAT53444 standard; RNA; 17 BP.

XX AC AAT53444;

DT 25-MAR-2003 (revised)

DT 27-MAR-1997 (first entry)

DE Rat ICAM hammerhead ribozyme target sequence (nt. position 510).

KW Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;  
KW gene expression; downregulation; interleukin-5; IL-5; ICAM-1;  
KW intercellular adhesion molecule; rel A; tumour necrosis factor;  
KW TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;  
KW translocation; chronic myelogenous leukaemia; CML; cancer;  
KW Philadelphia chromosome; inflammation; autoimmune disease;  
KW atherosclerosis; myocardial infarction; stroke; restenosis;  
KW transplant rejection; rheumatoid arthritis; psoriasis;  
KW myocardial ischaemia; Kawasaki disease; septic shock; HIV;  
KW human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;  
XX ss.

XX OS Rattus rattus.

XX PN WO9523225-A2.

XX PD 31-AUG-1995.

XX PF 23-FEB-1995; 95WO-IB000156.

XX PR 23-FEB-1994; 94US-00201109.

XX PR 29-MAR-1994; 94US-00218934.

XX PR 04-APR-1994; 94US-00222795.

XX PR 07-APR-1994; 94US-00224483.

XX PR 15-APR-1994; 94US-00227958.

XX PR 15-APR-1994; 94US-00228041.

XX PR 18-MAY-1994; 94US-00245736.

XX PR 06-JUL-1994; 94US-00271280.

XX PR 15-AUG-1994; 94US-00291332.

XX PR 16-AUG-1994; 94US-00291433.

XX PR 17-AUG-1994; 94US-00292620.

XX PR 19-AUG-1994; 94US-00293520.

XX PR 02-SEP-1994; 94US-00300000.

XX PR 08-SEP-1994; 94US-00303039.

XX PR 23-SEP-1994; 94US-00311486.

XX PR 23-SEP-1994; 94US-00311749.

XX PR 28-SEP-1994; 94US-00314397.

XX PR 03-OCT-1994; 94US-00316771.

XX PR 07-OCT-1994; 94US-00319492.

XX PR 11-OCT-1994; 94US-00321993.

XX PR 04-NOV-1994; 94US-00334847.

XX PR 10-NOV-1994; 94US-00337608.

XX PR 28-NOV-1994; 94US-00345516.

XX PR 16-DEC-1994; 94US-00357577.

XX PR 23-DEC-1994; 94US-00363233.

PR 30-JAN-1995; 95US-00380734.  
XX (RIBO-) RIBOZYME PHARM INC.  
XX Stinchcomb DT, Chowira B, Drenzo A, Draper KG, Dudycz LW;  
XX Grimm S, Karpeisky A, Kisich K, Matulic-Adamic J, Mcswiggen JA;  
PI Modak A, Favco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;  
PI Tracz D, Usman N, Wincott FE, Woolf T;  
XX WPI; 1995-351090/45.  
XX Ribozymes having modified bases and methods for producing them - for use  
PT in inhibiting disease related genes.  
XX Claim 2; Page 201; 407pp; English.  
XX The present sequence represents a preferred target sequence for an  
CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves ICAM-1 mRNA at the  
CC nucleotide base position indicated in the DE line. Regions of the mRNA  
CC that do not form secondary folding structures and that contain potential  
CC hammerhead and hairpin ribozyme cleavage sites were identified by  
CC computer analysis. Ribozymes directed against these mRNA sequences were  
CC designed and synthesised with modifications that improve their nuclease  
CC resistance. The ribozymes cleave the ICAM-1 target sequences and thereby  
CC inhibit ICAM-1 expression, making them useful for reducing transplant  
CC rejection and alleviating symptoms in patients with rheumatoid arthritis,  
CC asthma and other inflammatory disorders. (Updated on 25-MAR-2003 to  
CC correct PI field.)  
XX Sequence 17 BP; 2 A; 4 C; 7 G; 0 T; 4 U; 0 Other;  
SQ Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 70.6%; Pred. No. 9e+02; Indels 0; Gaps 0;  
Matches 12; Conservative 3; Mismatches 2;  
QY 272 GTGCTGCTCTCTGGGAA 288  
DB 1 GUGCUGCUCUGUGGAA 17  
RESULT 1307  
AAT81489/C  
ID AAT81489 standard; RNA; 17 BP.  
XX AAT81489;  
XX 07-DEC-1997 (first entry)  
XX Human c-myb hammerhead ribozyme target sequence (nt. position 2665).  
XX Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;  
XX smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb;  
XX coronary angioplasty; ss.  
XX Homo sapiens.  
XX WO9531541-A2.  
XX 23-NOV-1995.  
XX 18-MAY-1995; 95WO-US006368.  
XX 18-MAY-1994; 94US-00245466.  
XX 13-JAN-1995; 95US-00373124.  
XX (RIBO-) RIBOZYME PHARM INC.  
XX Stinchcomb DT, Draper K, Mcswiggen J, Jarvis T;  
XX WPI; 1996-010927/01.  
XX New enzymatic nucleic acid molecules - cleave RNA produced by e.g. c-myb,  
XX for treating restenosis or cancer.

XX Claim 1; Page 76; 128pp; English.  
XX The present sequence represents the preferred target sequence for an  
CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves  
CC the human c-myb sequence at the base position indicated in the descriptor  
CC line. The c-myb sequence was screened for optimal ribozyme target sites  
CC using a computer folding algorithm, and regions of the mRNA which did not  
CC form secondary folding structures and contained potential ribozyme  
CC cleavage sites were identified. Ribozymes were synthesised and their  
CC activities optimised by either varying the length of the binding arms or  
CC by modification to prevent degradation by nucleases. The ribozymes cleave  
CC the c-myb sequence and can be used to prevent smooth muscle cell  
CC hyperproliferation in restenosis, especially after coronary angioplasty,  
CC and in cancers  
XX Sequence 17 BP; 1 A; 3 C; 3 G; 0 T; 10 U; 0 Other;  
SQ Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2;  
QY 672 AGCGAGCTCAGACACA 688  
DB 17 AAGCAGCTAACAGAAA 1  
RESULT 1308  
AAT81488/C  
ID AAT81488 standard; RNA; 17 BP.  
XX AAT81488;  
XX 07-DEC-1997 (first entry)  
XX Human c-myb hammerhead ribozyme target sequence (nt. position 2664).  
XX Enzymatic nucleic acid; hammerhead; ribozyme; cleavage; human;  
XX smooth muscle cell; hyperproliferation; restenosis; cancer; c-myb;  
XX coronary angioplasty; ss.  
XX Homo sapiens.  
XX WO9531541-A2.  
XX 23-NOV-1995.  
XX 18-MAY-1995; 95WO-US006368.  
XX 18-MAY-1994; 94US-00245466.  
XX 13-JAN-1995; 95US-00373124.  
XX (RIBO-) RIBOZYME PHARM INC.  
XX Stinchcomb DT, Draper K, Mcswiggen J, Jarvis T;  
XX WPI; 1996-010927/01.  
XX New enzymatic nucleic acid molecules - cleave RNA produced by e.g. c-myb,  
XX for treating restenosis or cancer.  
XX Claim 1; Page 76; 128pp; English.  
XX The present sequence represents the preferred target sequence for an  
CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves  
CC the human c-myb sequence at the base position indicated in the descriptor  
CC line. The c-myb sequence was screened for optimal ribozyme target sites  
CC using a computer folding algorithm, and regions of the mRNA which did not  
CC form secondary folding structures and contained potential ribozyme  
CC cleavage sites were identified. Ribozymes were synthesised and their  
CC activities optimised by either varying the length of the binding arms or  
CC by modification to prevent degradation by nucleases. The ribozymes cleave  
CC the c-myb sequence and can be used to prevent smooth muscle cell  
CC hyperproliferation in restenosis, especially after coronary angioplasty,  
CC and in cancers

CC hyperproliferation in restenosis, especially after coronary angioplasty,  
CC and in cancers

SQ Sequence 17 BP; 1 A; 3 C; 3 G; 0 T; 10 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 673 AGCAGGCTCACAGACAA 689  
Db 17 AGCAAGCTAACAGAAAA 1

RESULT 1309

AAT50895  
ID AAT50895 standard; DNA; 17 BP.

XX AC AAT50895;

XX 26-AUG-1997 (first entry)

DE Probe #9 for interleukin-6 receptor.

XX Probe; interleukin-6 receptor; IL-6R; cytokine; cellular proliferation;  
KW transmembrane glycoprotein receptor; signal transducer; gp130; inhibitor;  
KW IL-6; cancer; renal cell carcinoma; autoimmune disease; viral infection;  
KW therapy; ss.

OS Synthetic.

XX Key Location/Qualifiers  
FH misc\_feature 1..17

FT /\*tag= a  
FT /note= "optionally phosphorothioated"

XX EP747386-A2.

XX 11-DEC-1996.

XX 07-JUN-1996; 96EP-00304315.

XX 07-JUN-1995; 95US-00484666.

XX 07-JUN-1995; 95US-00486408.

PA (GENP-) GEN-PROBE INC.

PI Brown SJ, Dattagupta N, Naidu YM;

DR WPI; 1997-023093/03.

PT Oligo(nucleotide(s) complementary to interleukin-6 receptor mRNA - for  
PT treating proliferative diseases, e.g. cancer, auto-immune diseases or  
PT viral infections.

PS Claim 1; Page 16; 18pp; English.

XX AAT50887-T50904 represent oligonucleotides of the invention. These  
CC sequences are all probes for interleukin-6 receptor (IL-6R) mRNA. IL-6 is  
CC one of the most well characterised of the cytokines. It functions through  
CC interacting with at least two transmembrane glycoprotein receptor  
CC molecules on the surface of target cells. The receptors are the IL-6R,  
CC and the signal transducer gp130. Signal transduction by IL-6 involves the  
CC concerted action of both IL-6R and gp130. IL-6 overproduction is  
CC implicated in many different disease states, particularly in cellular  
CC proliferation associated with these diseases. These sequences bind to the  
CC IL-6R coding sequence, thereby inhibiting IL-6R production. The sequences  
CC therefore inhibit the functioning of IL-6. These sequences can be used  
CC for inhibiting disease-associated cellular proliferation. The  
CC oligonucleotides are especially useful for treating cancer (e.g. renal  
CC cell carcinoma), autoimmune diseases or viral infections. They can also  
CC be used as probes for detecting IL-6 receptor mRNA, especially for  
CC evaluating the effectiveness of drugs in reducing IL-6 receptor mRNA

CC levels

XX Sequence 17 BP; 2 A; 5 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1596 GGTGGACACCGAGTTCT 1612  
Db 1 GGTGGACACCTCGTTCT 17

RESULT 1310

AAX71472  
ID AAX71472 standard; RNA; 17 BP.

XX AC AAX71472;

XX 28-JUL-1999 (first entry)

DE Human KDR VEGF receptor hammerhead ribozyme substrate #484.

XX Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
KW KDR; hammerhead ribozyme; hairpin ribozyme; cleavage;  
KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
KW foetal liver kinase 1; ss.

OS Homo sapiens.

XX WO9715662-A2.

XX 01-MAY-1997.

XX 25-OCT-1996; 96WO-US017480.

XX 26-OCT-1995; 95US-0005974P.

XX 11-JAN-1996; 96US-00084040.

XX (RIBO-) RIBOZYME PHARM INC.

XX (CHIR) CHIRON CORP.

PI Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;

XX WPI; 1997-259017/23.

PT Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
PT stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
PT rheumatoid arthritis, etc., in a human patient.

PS Claim 4; Page 11; 218pp; English.

XX The present invention describes nucleic acid molecules which modulate the  
CC synthesis, expression and/or stability of a mRNA encoding 1 or more  
CC receptors of vascular endothelial growth factor (VEGF). A patient  
CC (preferably human) having a condition associated with the level of the  
CC fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
CC receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
CC angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
CC treated by administering the nucleic acid molecule or the expression  
CC vector to the patient. AAX67275 to AAX75752 represent specific examples  
CC of nucleic acid molecules from the present invention

XX SQ Sequence 17 BP; 0 A; 5 C; 7 G; 0 T; 5 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 64.7%; Pred. No. 9e+02;  
Matches 11; Conservative 4; Mismatches 2; Indels 0; Gaps 0;

QY 1035 CTTTGGCTGGCCGAG 1051

Db 1 CUUUGGUUGGCCCGGG 17

RESULT 1311  
AAA23256/c  
ID AAA23256 standard; RNA; 17 BP.  
XX AC AAA23256;  
XX DT 19-JUN-2000 (first entry)  
XX DE Integrin subunit beta 3 substrate sequence SEQ ID NO:6482.  
XX KW Human; aryl hydrocarbon nuclear transport; ARNT; TIE-2; angiogenesis;  
KW integrin alpha 6 subunit; integrin subunit beta 3; hairpin ribozyme;  
KW hammerhead ribozyme; angiogenic factor; cytosolic; antidiabetic;  
KW ophthalmologic; antiinflammatory; antiarthritic; antiproliferative;  
KW dermatologic; RNA cleavage; cancer; diabetic retinopathy; arthritis;  
KW age related macular degeneration; inflammation; neovascular glaucoma;  
KW myopic degeneration; psoriasis; verruca vulgaris; angiofibroma;  
KW tuberculous sclerosis; pot-wine stain; Sturge Weber syndrome;  
KW Kippel-Treunay-Weber syndrome; Osler-Weber-Rendu syndrome; ss.  
XX OS Homo sapiens.  
XX PN WO9950403-A2.  
XX PD 07-OCT-1999.  
XX PF 24-MAR-1999; 99WO-US006507.  
XX PR 27-MAR-1998; 98US-0079678P.  
XX PA (RIBO-) RIBOZYME PHARM INC.  
XX PI Pavco PA, Roberts E, Jarvis T, Coeshott C, Mcswiggen JA;  
XX WPI; 1999-591315/50.  
XX PT Novel ribozymes for modulating the synthesis, expression and/or stability  
XX of an mRNA encoding an angiogenic factors.  
XX PS Claim 54; Page 271; 305pp; English.  
XX CC The present invention describes enzymatic nucleic acid molecules with RNA  
CC cleaving activity, which specifically cleave RNA encoded by an aryl  
CC hydrocarbon nuclear transporter (ARNT) gene, an integrin subunit beta 3  
CC gene, an integrin alpha 6 subunit gene, or a Tie-2 gene. AAA16775 to  
CC AAA17167 and AAA17561 to AAA17622 represent ribozyme sequences for ARNT,  
CC and AAA17168 to AAA17560 and AAA17623 to AAA17684 represent their  
CC corresponding target sequences; AAA17685 to AAA18385 and AAA19087 to  
CC AAA19154 represent ribozyme sequences for Tie-2, and AAA18386 to AAA19086  
CC and AAA19155 to AAA19222 represent their corresponding target sequences;  
CC AAA19223 to AAA20361 and AAA21501 to AAA21595 represent ribozyme  
CC sequences for integrin alpha 6 subunit, and AAA20362 to AAA21500 and  
CC AAA21596 to AAA21688 represent their corresponding target sequences;  
CC for integrin subunit beta 3, and AAA22476 to AAA23262, AAA23343 to  
CC AAA24422 represent their corresponding target sequences. The ribozymes of  
CC the invention are used for modulating the synthesis, expression and/or  
CC stability of an mRNA encoding angiogenic factor, especially ARNT,  
CC integrin subunit beta-3, integrin subunit alpha-6, or Tie-2. They are  
CC especially used to treat cancer, diabetic retinopathy, age related  
CC macular degeneration (ARMD), inflammation, and arthritis, as well as  
CC neovascular glaucoma, myopic degeneration, psoriasis, verruca vulgaris,  
CC angiofibroma of tuberosus sclerosis, pot-wine stains, Sturge Weber  
CC syndrome, Kippel-Treunay-Weber syndrome, Osler-Weber-Rendu syndrome,  
CC and other syndromes and diseases related to the levels of ARNT, Tie-2,  
CC integrin subunit alpha-6, or integrin subunit beta-3  
XX SQ Sequence 17 BP; 3 A; 3 C; 4 G; 0 T; 7 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 808 ATTATCCACACGAGAA 824  
DB 17 ATTATCCAAACGAGCA 1  
RESULT 1312  
AAV92551  
ID AAV92551 standard; RNA; 17 BP.  
XX AC AAV92551;  
XX DT 18-FEB-1999 (first entry)  
XX DE Human A-Raf substrate position 1538.  
XX KW Human; c-raf; A-raf; B-raf; hammerhead ribozyme; hairpin ribozyme;  
KW target; substrate; catalyst; modulation; expression; Raf gene; delivery;  
KW screening; identification; synthesis; deprotection; purification; cancer;  
KW inflammation; psoriasis; non-hepatic ascites; infection; genetic drift;  
KW restenosis; rheumatoid arthritis; ss.  
XX OS Homo sapiens.  
XX PN WO9850530-A2.  
XX PD 12-NOV-1998.  
XX PF 05-MAY-1998; 98WO-US009249.  
XX PR 09-MAY-1997; 97US-0046059P.  
XX PR 03-JUN-1997; 97US-0049002P.  
XX PR 03-JUL-1997; 97US-0051718P.  
XX PR 22-AUG-1997; 97US-0056808P.  
XX PR 02-OCT-1997; 97US-0061321P.  
XX PR 02-OCT-1997; 97US-0061324P.  
XX PR 05-NOV-1997; 97US-0064866P.  
XX PR 19-DEC-1997; 97US-0068212P.  
XX PA (RIBO-) RIBOZYME PHARM INC.  
XX PI Jarvis T, Matulic-Adamic J, Reynolds M, Kisich K, Bellon L;  
XX Parry T, Beigelman L, Mcswiggen JA, Karpeisky A, Burgin A;  
XX Thompson J, Workman CT, Beaudry A, Sweedler D;  
XX WPI; 1999-009494/01.  
XX PT Identifying new catalytic nucleic acid that modulates selected processes  
XX - especially ribozymes that cleave Raf RNA for treating cancer,  
XX restenosis, and also new ribozymes and modified nucleoside triphosphates  
XX used as antiviral agents and synthons.  
XX PS Claim 177; Page 160; 259pp; English.  
XX CC A method has been developed for the identification of a nucleic acid  
XX capable of modulating a process in a biological system. The method  
XX comprises: (a) introducing into the system a random library of nucleic  
XX acid catalysts (NAC) having a substrate binding domain (SBD), comprising  
XX in systems where modulation has occurred and/or determining the sequence  
XX of at least part of the SBDs in such systems. Nucleic acid molecules with  
XX endonuclease activity and catalytic activity, from the present invention,  
XX are used to modulate gene expression in plant and mammalian cells and to  
XX cleave target nucleic acid, particularly for treating systemic diseases  
XX caused by specific RNA, e.g. cancer, inflammation, psoriasis, non-hepatic  
XX ascites and infection. They may also be used to detect genetic drift and  
XX mutations in diseased cells and to determine c-raf RNA. Specifically NACs  
XX with RNA-cleaving activity that modulate expression of the Raf gene, are  
XX used to treat cancer, restenosis, psoriasis or rheumatoid arthritis, or  
XX generally any condition associated with the level of c-raf. Introduction  
XX of sugar/phosphate modifications increases stability against nuclease and  
XX activity. AAV90922 to AAV93877 represent NACs that can be used in the



CC method, specifically for modulating the expression of a Raf gene  
 XX  
 SQ Sequence 17 BP; 1 A; 3 C; 7 G; 0 T; 6 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 58.8%; Pred. No. 9e+02;  
 Matches 10; Conservative 5; Mismatches 2; Indels 0; Gaps 0;

Qy 1030 GCTGACTTTGGCCTGGC 1046  
 Db 1 GGUGACUUGGCUUGGC 17

RESULT 1313  
 AAA36495  
 ID AAA36495 standard; DNA; 17 BP.

AC AAA36495;

XX 26-JUL-2000 (first entry)

XX Human genomic SNP allele specific oligonucleotide SEQ ID NO:560.

XX Human; single nucleotide polymorphism; SNP; genotyping; DNA analysis;  
 KW allele specific oligonucleotide; ASO; reduced complexity genome; RCG;  
 KW genomic classification; identification; DNA fingerprinting;  
 KW tumour characterisation; hybridisation; ss.

XX Homo sapiens.

XX WO200018960-A2.

XX 06-APR-2000.

XX 24-SEP-1999; 99WO-US022283.

XX 25-SEP-1998; 98US-0101757P.

XX (MASI ) MASSACHUSETTS INST TECHNOLOGY.

XX Landers JE, Jordan B, Housman DE, Charest A;

XX WPI; 2000-293181/25.

XX Detection of single nucleotide polymorphisms in genomes by preparation  
 PT and analysis of reduced complexity genomes, useful for genotyping,  
 PT fingerprinting and determining allele frequency of SNPs.

XX Disclosure; Page 69; 11lpp; English.

XX A method has been developed for detecting the presence or absence of a  
 CC single nucleotide polymorphism (SNP) allele in a genomic sample. The  
 CC method comprises preparing a reduced complexity genome (RCG) from the  
 CC genomic sample and analysing the RCG for the presence or absence of a SNP  
 CC allele. The method can be used to characterise a tumour, to generate a  
 CC genomic pattern for an individual genome or to generate a genomic  
 CC classification code for a genome. The method can be used to assess  
 CC whether a subject is at risk for developing a disease or to identify a  
 CC set of SNP alleles associated with a disease. The method can also be used  
 CC to perform linkage analysis. AAA35944 to AAA35947 represent sequences  
 CC used in the exemplification of the present invention. AAA35948 to  
 CC AAA36632 represent nucleotide sequences containing SNPs

XX Sequence 17 BP; 4 A; 4 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 9e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1112 CTGACATCTGCTGGG 1128  
 Db 1 CTGACATCTGCTTAGG 17

RESULT 1314  
 AAA72376/C  
 ID AAA72376 standard; DNA; 17 BP.  
 XX  
 AC AAA72376;  
 XX  
 DT 19-DEC-2000 (first entry)  
 XX  
 DE Mouse angiotensin II type 2 receptor (AT2 receptor) PCR primer, AT2-R.  
 XX  
 KW Mouse angiotensin II type 2 receptor; AT2 receptor; vascular tissue;  
 KW transgenic animal; blood pressure regulation; PCR primer; ss.

OS Mus sp.

XX WO200045633-A1.

XX 10-AUG-2000.

XX 04-FEB-2000; 2000WO-JP000615.

XX 05-FEB-1999; 99JP-00029354.

XX (SUNR ) SUNTORY LTD.

XX Kurihara T, Matsubara H;

XX WPI; 2000-543434/49.

XX Transgenic animals expressing angiotensin II2 receptor gene in vascular  
 PT tissue used as a model for studying function and blood pressure  
 PT regulatory activity of the receptor.

XX Example 3; Page 9; 26pp; Japanese.

XX The invention relates to transgenic animals which express the angiotensin  
 CC II type 2 receptor (AT2 receptor) gene in vascular tissue. The invention  
 CC also relates to a method for the production of transgenic animal of the  
 CC invention, comprising inserting the AT2 receptor gene into pluripotent  
 CC cells of the animal, implanting and bringing to term to give transgenic  
 CC animals whose descendants will also express the AT2 receptor gene. The  
 CC transgenic animal is a model system for the study of the vascular  
 CC function and blood pressure regulatory function of the AT2 receptor in  
 CC vivo or in vitro. It may also be used to study the competitive activity  
 CC of AT1 and AT2 receptors. Sequences AAA72375-A72376 represent PCR primers  
 CC used in an exemplification of the invention. The present sequence  
 CC represents a mouse AT2 receptor PCR primer

XX Sequence 17 BP; 2 A; 4 C; 6 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 9e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 949 TACTGCCACCGCAGAA 965

Db 17 TGTGCCACCGCAGCAA 1

RESULT 1315

AAF95069

ID AAF95069 standard; DNA; 17 BP.

XX AAF95069;

XX 23-MAY-2001 (first entry)

XX Mutant capture oligonucleotide #62.

XX Tubercle bacillus; drug sensitivity; drug resistance; rifampicin;  
 KW streptomycin; kanamycin; isoniazid; ethambutol; rpoB gene; rrs gene;  
 KW rpsL gene; inhA gene; katG gene; embB gene; probe; PCR primer; ss.

XX Mycobacterium tuberculosis.  
OS  
XX  
PN EP1076099-A2.  
XX  
PD 14-FEB-2001.  
XX  
PF 02-AUG-2000; 2000EP-00306563.  
XX  
PR 03-AUG-1999; 99JP-00220357.  
XX  
XX (NISN ) NISSHINBO IND INC.  
PA (SYST-) SYSTEM RES INC.  
PA  
XX  
PI Suzuki Y, Nishida M, Takenishi S;  
XX  
XX WPI; 2001-246696/26.  
XX  
XX New oligonucleotides, nucleic acid probes and primers are useful for  
PT differentiating drug-resistance and determining infection with tubercle  
PT bacilli.  
XX  
PS Claim 16; Page 35; 114pp; English.  
XX  
XX The present invention relates to oligonucleotides based on nucleotide  
CC sequences obtained from both wild-type tubercle bacilli (wtTB) that are  
CC susceptible to a drug and mutant-type tubercle bacilli (mtTB) that are  
CC resistant to a drug. The drugs used in the present invention are  
CC rifampicin (RFP), streptomycin (SM), kanamycin (KM), isoniazid (INH) and  
CC ethambutol (EB). The rpoB gene is responsible for resistance to RFP; the  
CC rrs gene is responsible for resistance to SM and KM; the rpsL gene is  
CC responsible for resistance to SM; the inhA gene is responsible for  
CC resistance to INH; the katG gene is responsible for resistance to INH;  
CC and the embB gene is responsible for resistance to EB. The present  
CC invention also relates to nucleic acid probes having part of a nucleotide  
CC sequence of tubercle bacilli (TB) responsible for drug resistance and  
CC primers used to generate the probes. The present sequence is an  
CC oligonucleotide of the present invention. The oligonucleotides of the  
CC present invention can be used to enable the differentiation of drug  
CC resistance and the determination of infection with tubercle bacilli  
CC simultaneously  
XX  
SQ Sequence 17 BP; 1 A; 7 C; 7 G; 2 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2;  
  
QY 1035 CTTGGCCTGGCCGAG 1051  
Db 1 CTTGGCCTGGCCGAG 17  
  
RESULT 1316  
ID ABN10018  
ID ABN10018 standard; DNA; 17 BP.  
XX  
AC ABN10018;  
XX  
XX 29-MAY-2002 (first entry)  
DT  
XX Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:10010.  
DE  
XX Human; genome-derived myosin-like protein 1; GDMLP-1; heart;  
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
KW skeletal muscle disorder; amplicon; screening; ss.  
XX  
XX Homo sapiens.  
OS  
XX WO200192524-A2.  
PN  
XX 06-DEC-2001.  
PD  
XX

PF 25-MAY-2001; 2001WO-US016981.  
XX  
XX 26-MAY-2000; 2000US-0207456P.  
PR 21-SEP-2000; 2000US-0234687P.  
PR 27-SEP-2000; 2000US-0236359P.  
PR 04-OCT-2000; 2000GB-00024263.  
PR 30-JAN-2001; 2001WO-US000661.  
PR 30-JAN-2001; 2001WO-US000662.  
PR 30-JAN-2001; 2001WO-US000663.  
PR 30-JAN-2001; 2001WO-US000664.  
PR 30-JAN-2001; 2001WO-US000665.  
PR 30-JAN-2001; 2001WO-US000666.  
PR 30-JAN-2001; 2001WO-US000667.  
PR 30-JAN-2001; 2001WO-US000668.  
PR 30-JAN-2001; 2001WO-US000669.  
PR 30-JAN-2001; 2001WO-US000670.  
PR 05-FEB-2001; 2001US-0266860P.  
XX  
XX (AEOM-) AEOMICA INC.  
XX  
XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon MB;  
PI  
XX WPI; 2002-179446/23.  
DR  
XX  
XX New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins,  
PT or as specific biomolecule capture probes for surface-enhanced laser  
PT desorption ionization, comprises human myosin-like protein hGDMLP-1.  
XX  
XX Disclosure; SEQ ID NO 10010; 214pp; English.  
PS  
XX The present invention describes a human genome-derived myosin-like  
CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-  
CC 1 can be used in gene therapy and vaccine production. The hGDMLP-1  
CC nucleic acids can be used as probes to detect, characterise and quantify  
CC hGDMLP-1 nucleic acids in samples, as amplification substrates, to  
CC provide initial substrates for the recombinant engineering of hGDMLP-1  
CC protein variants having desired phenotypic improvements, and for  
CC expressing the proteins. The hGDMLP-1 proteins or polypeptides may be  
CC used as immunogens to raise antibodies that specifically recognise hGDMLP  
CC -1 proteins, as standards in assays used to determine the concentration  
CC and/or amount specifically of hGDMLP proteins, as specific biomolecule  
CC capture probes for surface-enhanced laser desorption ionisation, as  
CC therapeutic supplement in patients having specific deficiency in hGDMLP-1  
CC production, and in vaccines or for replacement therapy. The  
CC polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a  
CC disorder associated with the expression of hGDMLP-1, in particular heart  
CC and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22.  
CC The present sequence represents an oligomer used in the screening of the  
CC hGDMLP-1 sequence in the exemplification of the present invention. N.B.  
CC The sequence data for this patent did not form part of the printed  
CC specification, but was obtained in electronic format directly from WIPO  
CC at ftp.wipo.int/pub/published\_pct\_sequence  
XX  
SQ Sequence 17 BP; 1 A; 5 C; 8 G; 3 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2;  
  
QY 386 CGTCCTCGGATGAGGTG 402  
Db 1 CGTCCTCGGAGCGGTG 17  
  
RESULT 1317  
ID ABN08053  
ID ABN08053 standard; DNA; 17 BP.  
XX  
XX AC ABN08053;  
XX  
XX 29-MAY-2002 (first entry)  
DT  
XX Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:8045.  
DE

XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX Homo sapiens.  
 OS WO200192524-A2.  
 PN 06-DEC-2001.  
 XX 25-MAY-2001; 2001WO-US016981.  
 XX 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX (AEOM-) AEOMICA INC.  
 PA Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 PI WPI; 2002-179446/23.  
 DR New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.  
 XX Disclosure; SEQ ID NO 8045; 214pp; English.  
 CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX Sequence 17 BP; 6 A; 2 C; 7 G; 2 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 9e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 127 GATCGGATGAAGAGAT 143  
 Db 1 GAGCGGATGAAGCAGAT 17

RESULT 1318  
 AEN06804/c

ID AEN06804 standard; DNA; 17 BP.

XX AC AEN06804;

XX DT 29-MAY-2002 (first entry)

XX Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6796.

XX Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.

OS Homo sapiens.

PN WO200192524-A2.

XX PD 06-DEC-2001.

XX 25-MAY-2001; 2001WO-US016981.

XX 26-MAY-2000; 2000US-0207456P.

XX 21-SEP-2000; 2000US-0234687P.

XX 27-SEP-2000; 2000US-0236359P.

XX 04-OCT-2000; 2000GB-00024263.

XX 30-JAN-2001; 2001WO-US000661.

XX 30-JAN-2001; 2001WO-US000662.

XX 30-JAN-2001; 2001WO-US000663.

XX 30-JAN-2001; 2001WO-US000664.

XX 30-JAN-2001; 2001WO-US000665.

XX 30-JAN-2001; 2001WO-US000666.

XX 30-JAN-2001; 2001WO-US000667.

XX 30-JAN-2001; 2001WO-US000668.

XX 30-JAN-2001; 2001WO-US000669.

XX 05-FEB-2001; 2001WO-US000670.

XX 05-FEB-2001; 2001US-0266860P.

XX (AEOM-) AEOMICA INC.

XX Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;

XX WPI; 2002-179446/23.

XX New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,  
 or as specific biomolecule capture probes for surface-enhanced laser  
 desorption ionization, comprises human myosin-like protein hGDMPLP-1.

XX Disclosure; SEQ ID NO 6796; 214pp; English.

XX The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMPLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMPLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMPLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO

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CC at ftp.wipo.int/pub/published_pct_sequence
XX
SQ Sequence 17 BP; 0 A; 3 C; 11 G; 3 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

XX
QY 552 GCCCTAGCCGCGCC 568
Db 17 GCCCAGCCACCGCC 1

RESULT 1319
ABN01534/c
ID ABN01534 standard; DNA; 17 BP.
AC ABN01534;
XX
DT 29-MAY-2002 (first entry)
XX
DE Human GDMPLP-1 17-mer scanning SEQ ID NO:4 sequence SEQ ID NO:1526.
XX
KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
KW skeletal muscle disorder; amplicon; screening; ss.
XX
OS Homo sapiens.
XX
PN WO200192524-A2.
XX
PD 06-DEC-2001.
XX
PF 25-MAY-2001; 2001WO-US016981.
XX
PR 26-MAY-2000; 2000US-0207456P.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 05-FEB-2001; 2001US-0266860P.
XX
PA (AEOM-) AEOMICA INC.
XX
PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX
DR WPI; 2002-179446/23.
XX
PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
PT or as specific biomolecule capture probes for surface-enhanced laser
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
PS Disclosure; SEQ ID NO 1526; 214pp; English.
XX

CC The present invention describes a human genome-derived myosin-like
CC protein 1 (hGDMPLP-1). The protein and polynucleotide sequences of hGDMPLP-
CC 1 can be used in gene therapy and vaccine production. The hGDMPLP-1
CC nucleic acids can be used as probes to detect, characterise and quantify
CC hGDMPLP-1 nucleic acids in samples, as amplification substrates, to
CC provide initial substrates for the recombinant engineering of hGDMPLP-1
CC protein variants having desired phenotypic improvements, and for
CC expressing the proteins. The hGDMPLP-1 proteins or polypeptides may be
CC used as immunogens to raise antibodies that specifically recognise hGDMPLP
CC -1 proteins, as standards in assays used to determine the concentration
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CC and/or amount specifically of hGDMPLP proteins, as specific biomolecule
CC capture probes for surface-enhanced laser desorption ionisation, as
CC therapeutic supplement in patients having specific deficiency in hGDMPLP-1
CC production, and in vaccines or for replacement therapy. The
CC polynucleotide sequences encoding hGDMPLP-1 may be used for diagnosing a
CC disorder associated with the expression of hGDMPLP-1, in particular heart
CC and skeletal muscle disorders. hGDMPLP-1 is localised to chromosome 22.
CC The present sequence represents an oligomer used in the screening of the
CC hGDMPLP-1 sequence in the exemplification of the present invention. N.B.
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequence
XX
SQ Sequence 17 BP; 3 A; 2 C; 9 G; 3 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

XX
QY 986 AGCCCCAGAACCTGCTC 1002
Db 17 AGCCCCATCCTGCTC 1

RESULT 1320
ABN10672/c
ID ABN10672 standard; DNA; 17 BP.
XX
AC ABN10672;
XX
DT 29-MAY-2002 (first entry)
XX
DE Human GDMPLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:10664.
XX
KW Human; genome-derived myosin-like protein 1; GDMPLP-1; hGDMPLP-1; heart;
KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;
KW skeletal muscle disorder; amplicon; screening; ss.
XX
OS Homo sapiens.
XX
PN WO200192524-A2.
XX
PD 06-DEC-2001.
XX
PF 25-MAY-2001; 2001WO-US016981.
XX
PR 26-MAY-2000; 2000US-0207456P.
PR 21-SEP-2000; 2000US-0234687P.
PR 27-SEP-2000; 2000US-0236359P.
PR 04-OCT-2000; 2000GB-00024263.
PR 30-JAN-2001; 2001WO-US000661.
PR 30-JAN-2001; 2001WO-US000662.
PR 30-JAN-2001; 2001WO-US000663.
PR 30-JAN-2001; 2001WO-US000664.
PR 30-JAN-2001; 2001WO-US000665.
PR 30-JAN-2001; 2001WO-US000666.
PR 30-JAN-2001; 2001WO-US000667.
PR 30-JAN-2001; 2001WO-US000668.
PR 30-JAN-2001; 2001WO-US000669.
PR 05-FEB-2001; 2001US-0266860P.
XX
PA (AEOM-) AEOMICA INC.
XX
PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;
XX
DR WPI; 2002-179446/23.
XX
PT New polypeptide, for raising antibodies that recognize hGDMPLP-1 proteins,
PT or as specific biomolecule capture probes for surface-enhanced laser
PT desorption ionization, comprises human myosin-like protein hGDMPLP-1.
XX
PS Disclosure; SEQ ID NO 10664; 214pp; English.
XX
```

XX The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 SQ Sequence 17 BP; 4 A; 7 C; 6 G; 0 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 9e+02; Mismatches 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0;  
 Qy 1026 GCTGGCTGACTTTGGCC 1042  
 Db ||||| |||||  
 17 GCTGGCTGCTGGCC 1  
 RESULT 1321  
 ABN06803/c  
 ID ABN06803 standard; DNA; 17 BP.  
 AC ABN06803;  
 XX  
 DT 29-MAY-2002 (first entry)  
 XX  
 DE Human GDMLP-1 17-mer scanning SEQ ID NO:5 sequence SEQ ID NO:6795.  
 XX  
 KW Human; genome-derived myosin-like protein 1; GDMLP-1; hGDMLP-1; heart;  
 KW muscle; myosin; chromosome 22; gene therapy; vaccine; heart disease;  
 KW skeletal muscle disorder; amplicon; screening; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200192524-A2.  
 XX  
 PD 06-DEC-2001.  
 XX  
 PF 25-MAY-2001; 2001WO-US016981.  
 XX  
 PR 26-MAY-2000; 2000US-0207456P.  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 05-FEB-2001; 2001US-0266860P.  
 XX

PA (AEOM-) ABOMICA INC.  
 PI Gu Y, Ji Y, Penn SG, Hanzel DK, Rank DR, Chen W, Shannon ME;  
 XX WPI; 2002-179446/23.  
 DR  
 XX New polypeptide, for raising antibodies that recognize hGDMLP-1 proteins,  
 PT or as specific biomolecule capture probes for surface-enhanced laser  
 PT desorption/ionization, comprises human myosin-like protein hGDMLP-1.  
 XX  
 PS Disclosure; SEQ ID NO 6795; 214pp; English.  
 XX  
 CC The present invention describes a human genome-derived myosin-like  
 CC protein 1 (hGDMLP-1). The protein and polynucleotide sequences of hGDMLP-  
 CC 1 can be used in gene therapy and vaccine production. The hGDMLP-1  
 CC nucleic acids can be used as probes to detect, characterise and quantify  
 CC hGDMLP-1 nucleic acids in samples, as amplification substrates, to  
 CC provide initial substrates for the recombinant engineering of hGDMLP-1  
 CC protein variants having desired phenotypic improvements, and for  
 CC expressing the proteins. The hGDMLP-1 proteins or polypeptides may be  
 CC used as immunogens to raise antibodies that specifically recognise hGDMLP  
 CC -1 proteins, as standards in assays used to determine the concentration  
 CC and/or amount specifically of hGDMLP proteins, as specific biomolecule  
 CC capture probes for surface-enhanced laser desorption/ionisation, as  
 CC therapeutic supplement in patients having specific deficiency in hGDMLP-1  
 CC production, and in vaccines or for replacement therapy. The  
 CC polynucleotide sequences encoding hGDMLP-1 may be used for diagnosing a  
 CC disorder associated with the expression of hGDMLP-1, in particular heart  
 CC and skeletal muscle disorders. hGDMLP-1 is localised to chromosome 22.  
 CC The present sequence represents an oligomer used in the screening of the  
 CC hGDMLP-1 sequence in the exemplification of the present invention. N.B.  
 CC The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/published\_pct\_sequence  
 XX  
 SQ Sequence 17 BP; 1 A; 2 C; 11 G; 3 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 9e+02; Mismatches 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0;  
 Qy 553 CCCCTCAGCCGCCGCT 569  
 Db ||||| ||||| |||||  
 17 CCCACAGCCACCGCT 1  
 RESULT 1322  
 ABQ63455/c  
 ID ABQ63455 standard; DNA; 17 BP.  
 XX  
 AC ABQ63455;  
 XX  
 DT 20-AUG-2002 (first entry)  
 XX  
 DE Human KTOM1a portion (ABQ63232) probe # 168.  
 XX  
 KW Human; KTOM1a; KTOM1; kidney tumour overexpressed membrane; cytostatic;  
 KW gene therapy; cancer; kidney; liver; bone marrow; brain; heart; lung;  
 KW kidney; colon; skeletal muscle; testis; uterus; placenta; probe; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200224750-A2.  
 XX  
 PD 28-MAR-2002.  
 XX  
 PF 21-SEP-2001; 2001WO-US029656.  
 XX  
 PR 21-SEP-2000; 2000US-0234687P.  
 PR 27-SEP-2000; 2000US-0236359P.  
 PR 04-OCT-2000; 2000GB-00024263.  
 PR 30-JAN-2001; 2001WO-US000661.  
 PR 30-JAN-2001; 2001WO-US000662.  
 PR

PR 30-JAN-2001; 2001WO-US000663.  
 PR 30-JAN-2001; 2001WO-US000664.  
 PR 30-JAN-2001; 2001WO-US000665.  
 PR 30-JAN-2001; 2001WO-US000666.  
 PR 30-JAN-2001; 2001WO-US000667.  
 PR 30-JAN-2001; 2001WO-US000668.  
 PR 30-JAN-2001; 2001WO-US000669.  
 PR 30-JAN-2001; 2001WO-US000670.  
 PR 23-MAY-2001; 2001US-00864761.  
 PR 28-AUG-2001; 2001US-0315676P.  
 XX (AEOM-) AEOMICA INC.  
 PA Zhang J;  
 XI  
 XX WPI; 2002-479509/51.  
 DR  
 XX New human kidney tumor overexpressed membrane (KTOM1) protein and nucleic  
 PT acids encoding the protein, useful for treating subjects having defects  
 PT in KTOM1 which can manifest as cancer of the kidney, or as a disorder of  
 PT e.g., liver or bone.  
 XX  
 PS Example 2; Page 179; 418pp; English.  
 CC  
 XX The invention relates to a novel isolated nucleic acid encoding human  
 CC KTOM1 (kidney tumour overexpressed membrane) protein. The protein of the  
 CC invention has cytostatic activity. The nucleotide may have a use in gene  
 CC therapy. The KTOM1 nucleic acids may be used to diagnose, treat or  
 CC monitor a disease caused by altered expression of human KTOM1.  
 CC Compositions comprising the nucleic acids, proteins or antibodies may be  
 CC used to treat subjects having defects in KTOM1 which can manifest as  
 CC cancer of the kidney, as well as a disorder of liver, bone marrow, brain,  
 CC heart, lung, kidney, colon, skeletal muscle, testis, uterus and placenta  
 CC function. The sequence represents a probe used in the invention to scan  
 CC the nt 1-1001 portion of human KTOM1a (ABQ63232)  
 CC  
 XX Sequence 17 BP; 5 A; 8 C; 2 G; 2 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 9e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1397 AGCTGTTGCAGTTGAG 1413  
 |||||  
 Db 17 AGCTGTTGCAGTTGAG 1  
 RESULT 1323  
 ABK18593  
 ID ABK18593 standard; RNA; 17 BP.  
 XX  
 AC ABK18593;  
 XX  
 DT 09-APR-2002 (first entry)  
 XX  
 DE Human ERG G-cleaver ribozyme target sequence Seq ID No 1240.  
 XX  
 KW Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;  
 KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
 KW vulnarary; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;  
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
 KW angiofibroma of tuberous sclerosis; port-wine stain; wound healing;  
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
 KW Osler-Weber-rendu syndrome, leukaemia; osteoporosis; DNAzyme; inozyme;  
 KW amberzyme.  
 XX Homo sapiens.  
 OS  
 XX WO20018124-A2.  
 PN  
 XX 22-NOV-2001.  
 PD  
 XX

PF 16-MAY-2001; 2001WO-US015866.  
 XX  
 PR 16-MAY-2000; 2000US-00572021.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 PA (GLAX) GLAXO GROUP LTD.  
 XX  
 PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;  
 XX WPI; 2002-082995/11.  
 DR  
 XX Novel polynucleotide which down regulates expression of Ets-related gene,  
 PT useful for treating cancer, diabetic retinopathy, macular degeneration,  
 PT arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.  
 XX  
 PS Claim 4; Page 82; 149pp; English.  
 CC  
 XX The invention relates to a nucleic acid molecule (I) which down regulates  
 CC expression of an Ets-related gene (ERG). (I) is useful for treating  
 CC conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,  
 CC tumour angiogenesis, diabetic retinopathy, macular degeneration,  
 CC neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca  
 CC vulgaris, angiofibroma of tuberous sclerosis, port-wine stains, Sturge  
 CC Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu  
 CC syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for  
 CC treating a patient having a condition associated with the level of ERG,  
 CC by contacting cells of the patient with (I) under conditions suitable for  
 CC the treatment. The method comprises the use of one or more therapies  
 CC under conditions suitable for the treatment. Leukaemia or tumour  
 CC angiogenesis is treated by administering (I) to the patient in  
 CC conjunction with one or more of other therapies such as radiation or  
 CC chemotherapy treatment. (I) is useful for reducing ERG activity in a  
 CC cell, by contacting the cell with (I). (I) is useful for cleaving RNA of  
 CC ERG gene, by contacting (I) with RNA, in the presence of a divalent  
 CC cation such as Mg<sup>2+</sup>. (I) is useful for diagnosis of conditions and  
 CC diseases related to the expression of ERG, and as diagnostic tool to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of ERG RNA in a cell. (I) is useful for specifically  
 CC targeting genes that share homology with ERG gene or ERG fusion genes.  
 CC ABK17354-ABK22719 represent nucleic acids including antisense and  
 CC enzymatic nucleic acid molecules which regulate expression of ERG, and  
 CC related PCR primers of the invention  
 CC  
 XX Sequence 17 BP; 1 A; 9 C; 4 G; 0 T; 3 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 70.8%; Pred. No. 9e+02;  
 Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
 QY 557 TCAGCCGCGCCCTCCGT 573  
 :|||||  
 Db 1 UCAGCCGCGCCCUCCU 17  
 RESULT 1324  
 ABK18786  
 ID ABK18786 standard; RNA; 17 BP.  
 XX  
 AC ABK18786;  
 XX  
 DT 09-APR-2002 (first entry)  
 XX  
 DE Human ERG DNAzyme target sequence Seq ID No 1433.  
 XX  
 KW Human; hammerhead ribozyme; cytostatic; antitumour; antidiabetic;  
 KW ophthalmological; antiarthritic; antipsoriatic; virucide; osteopathic;  
 KW vulnarary; cancer; lymphoma; Ewing's sarcoma; melanoma; psoriasis;  
 KW tumour angiogenesis; diabetic retinopathy; macular degeneration;  
 KW neovascular glaucoma; myopic degeneration; arthritis; verruca vulgaris;  
 KW angiofibroma of tuberous sclerosis; port-wine stain; wound healing;  
 KW Sturge Weber syndrome; Kippel-Trenaunay-Weber syndrome; leukaemia; ss;  
 KW Osler-Weber-rendu syndrome, leukaemia; osteoporosis; DNAzyme; inozyme;  
 KW amberzyme.

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OS Homo sapiens.
XX WO200188124-A2.
XX
XX PD 22-NOV-2001.
XX
XX PF 16-MAY-2001; 2001WO-US015866.
XX
XX PR 16-MAY-2000; 2000US-00572021.
XX
XX PA (RIBO-) RIBOZYME PHARM INC.
XX (GLAX ) GLAXO GROUP LTD.
XX
XX PI Jarvis T, Von Carlowitz I, Mcswiggen JA, McLaughlin F, Randi AM;
XX WPI; 2002-082995/11.
XX
XX
XX Novel polynucleotide which down regulates expression of Ets-related gene,
XX useful for treating cancer, diabetic retinopathy, macular degeneration,
XX arthritis, psoriasis, verruca vulgaris and Sturge Weber syndrome.
XX
XX PS Claim 4; Page 91; 149pp; English.
XX
XX The invention relates to a nucleic acid molecule (I) which down regulates
XX expression of an Ets-related gene (ERG). (I) is useful for treating
XX conditions selected from cancer, lymphoma, Ewing's sarcoma, melanoma,
XX tumour angiogenesis, diabetic retinopathy, macular degeneration,
XX neovascular glaucoma, myopic degeneration, arthritis, psoriasis, verruca
XX vulgaris, angiofibroma of tuberosus sclerosis, port-wine stains, Sturge
XX Weber syndrome, Kippel-Trenaunay-Weber syndrome, Osler-Weber-rendu
XX syndrome, leukaemia, osteoporosis and wound healing. (I) is useful for
XX treating a patient having a condition associated with the level of ERG,
XX by contacting cells of the patient with (I) under conditions suitable for
XX the treatment. The method comprises the use of one or more therapies
XX under conditions suitable for the treatment. Leukaemia or tumour
XX angiogenesis is treated by administering (I) to the patient in
XX conjunction with one or more of other therapies such as radiation or
XX chemotherapy treatment. (I) is useful for reducing ERG activity in a
XX cell, by contacting the cell with (I). (I) is useful for cleaving RNA of
XX ERG gene, by contacting (I) with RNA, in the presence of a divalent
XX cation such as Mg2+. (I) is useful for diagnosis of conditions and
XX diseases related to the expression of ERG, and as diagnostic tool to
XX examine genetic drift and mutations within diseased cells or to detect
XX the presence of ERG RNA in a cell. (I) is useful for specifically
XX targeting genes that share homology with ERG gene or ERG fusion genes.
XX ABK17354-ABK32719 represent nucleic acids, including antisense and
XX enzymatic nucleic acid molecules which regulate expression of ERG, and
XX related PCR primers of the invention
XX
XX SQ Sequence 17 BP; 4 A; 5 C; 6 G; 0 T; 2 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. NO. 9e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 705 GGAGATCAGACTGGAAC 721
Db 1 GGAGACUAGCCUGGACC 17
RESULT 1325
ABS75050
ID ABS75050 standard; DNA; 17 BP.
XX
XX AC ABS75050;
XX
XX DT 24-DEC-2002 (first entry)
XX
XX DE Human PAPP-Ea associated 17-mer SEQ ID 576.
XX
XX KW PAPP-E; human; pregnancy associated plasma protein E; abortive;
XX contraceptive; gene therapy; vaccine; pregnancy; antenatal; diagnosis;
XX

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KW dysgenetic pregnancy; primer; ss.
XX
XX OS Homo sapiens.
XX
XX PN US2002102252-A1.
XX
XX PD 01-AUG-2002.
XX
XX PF 06-APR-2001; 2001US-00827998.
XX
XX PR 26-MAY-2000; 2000US-0207456P.
XX
XX PA (GUY/) GU Y.
XX (SHAN/) SHANNON M E.
XX
XX PI Gu Y, Shannon ME;
XX
XX DR WPI; 2002-697817/75.
XX
XX PT New isolated nucleic acid encoding an isoform of human pregnancy
XX associated plasma protein E, for preventing or aborting pregnancy.
XX
XX PS Example 2; Page 151; 353pp; English.
XX
XX This invention describes a novel isolated nucleic acid that encodes one
XX of three new isoforms of human pregnancy associated plasma protein E,
XX hPAPP-E. The products of the invention have abortive and contraceptive
XX activity and can be used for gene therapy or in a vaccine. The nucleic
XX acid, polypeptide encoded by it, or antibody to the polypeptide can be
XX used in pharmaceutical compositions or vaccines for preventing or
XX aborting pregnancy. PAPP-E is used in the antenatal diagnosis of
XX dysgenetic pregnancies. The nucleic acids are used as probes to assess
XX the level of PAPP-E isoform mRNA in chorionic villus samples, and the
XX antibodies can be used to assess the expression levels of PAPP-E isoform
XX proteins in chorionic villus samples, to diagnose dysgenetic pregnancies
XX antenatally. This sequence represents an oligomer used in scanning the
XX human PAPP-E genes described in the disclosure of the invention
XX
XX SQ Sequence 17 BP; 6 A; 2 C; 8 G; 1 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. NO. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1011 GAGGGGAGAGCTCAAGC 1027
Db 1 GAGGAGAGAGGCTCAAGC 17
RESULT 1326
ABS75049
ID ABS75049 standard; DNA; 17 BP.
XX
XX AC ABS75049;
XX
XX DT 24-DEC-2002 (first entry)
XX
XX DE Human PAPP-Ea associated 17-mer SEQ ID 575.
XX
XX KW PAPP-E; human; pregnancy associated plasma protein E; abortive;
XX contraceptive; gene therapy; vaccine; pregnancy; antenatal; diagnosis;
XX dysgenetic pregnancy; primer; ss.
XX
XX OS Homo sapiens.
XX
XX PN US2002102252-A1.
XX
XX PD 01-AUG-2002.
XX
XX PF 06-APR-2001; 2001US-00827998.
XX
XX PR 26-MAY-2000; 2000US-0207456P.
XX

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PA (GUY/) GU Y.
PA (SHAN/) SHANNON M E.
XX
XX Gu Y, Shannon ME;
XX
XX WPI; 2002-697817/75.
XX
XX New isolated nucleic acid encoding an isoform of human pregnancy
PT associated plasma protein E, for preventing or aborting pregnancy.
XX
XX Example 2; Page 150; 353pp; English.
XX
XX This invention describes a novel isolated nucleic acid that encodes one
CC of three new isoforms of human pregnancy associated plasma protein E,
CC hPAPP-E. The products of the invention have abortive and contraceptive
CC activity and can be used for gene therapy or in a vaccine. The nucleic
CC acid, polypeptide encoded by it, or antibody to the polypeptide can be
CC used in pharmaceutical compositions or vaccines for preventing or
CC aborting pregnancy. PAPP-E is used in the antenatal diagnosis of
CC dysgenetic pregnancies. The nucleic acids are used as probes to assess
CC the level of PAPP-E isoform mRNA in chorionic villus samples, and the
CC antibodies can be used to assess the expression levels of PAPP-E isoform
CC proteins in chorionic villus samples, to diagnose dysgenetic pregnancies
CC antenatally. This sequence represents an oligomer used in scanning the
CC human PAPP-E genes described in the disclosure of the invention
XX
XX Sequence 17 BP; 7 A; 1 C; 8 G; 1 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02; 2; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1010 AGAGGGAGAGCTCAAG 1026
Db 1 AGAGGAGAGAGCTCAAG 17
||||| ||||| |||||
RESULT 1327
ABV89395/C
ID ABV89395 standard; DNA; 17 BP.
XX
XX ABV89395;
XX
XX 23-DEC-2002 (first entry)
XX
XX Human POSHL1 scanning oligonucleotide SEQ ID NO 108.
XX
XX Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KW gene therapy; transgenic; ss.
XX
XX Homo sapiens.
XX
XX EP1239051-A2.
XX
XX 11-SEP-2002.
XX
XX 28-JAN-2002; 2002EP-00001165.
XX
XX 30-JAN-2001; 2001WO-US000663.
XX
XX 30-JAN-2001; 2001WO-US000664.
XX
XX 30-JAN-2001; 2001WO-US000665.
XX
XX 30-JAN-2001; 2001WO-US000666.
XX
XX 30-JAN-2001; 2001WO-US000667.
XX
XX 30-JAN-2001; 2001WO-US000668.
XX
XX 30-JAN-2001; 2001WO-US000669.
XX
XX 23-MAY-2001; 2001US-00864761.
XX
XX 10-OCT-2001; 2001US-0328205P.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Shannon M;
PI
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XX
XX WPI; 2002-684061/74.
XX
XX Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL
PT -1, useful for treating disorders associated with decreased expression or
PT activity of human POSHL1.
XX
XX Example 2; SEQ ID NO 108; 60pp + Sequence Listing; English.
XX
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
CC acids (SI, AB883999), a sequence having 65% sequence identity to (SI),
CC (SI) having 95% deviations, especially conservative substitutions or a
CC fragment of the sequences comprising at least 8 contiguous amino acids.
CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
CC adaptor protein that interacts with Rho family small GTPases as well as
CC downstream components of the signal transduction pathway. (I) is useful
CC for identifying a specific binding partner. (I) and nucleic acids (II)
CC encoding (I) are useful for diagnosing, monitoring disease and treating
CC caused by altered expression of human POSHL1 including diagnosing and
CC treating cancer, they useful in the development of vaccines and (II) is
CC useful in gene therapy. (II) is useful for constructing microarrays which
CC are useful for measuring and for surveying gene expression and creating
CC transgenic non-human animals capable of producing the proteins. The
CC present sequence is that of a scanning oligonucleotide useful in examples
CC of the invention. Note: The present sequence did not form part of the
CC printed specification, but is based on sequence information supplied to
CC Derwent by the European Patent Office
XX
XX Sequence 17 BP; 3 A; 2 C; 11 G; 1 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02; 2; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 556 CTCAGCCGCCGCTCCG 572
Db 17 CTCAGCCGCCGCTCCG 1
||||| ||||| |||||
RESULT 1328
ABV89567/C
ID ABV89567 standard; DNA; 17 BP.
XX
XX ABV89567;
XX
XX 23-DEC-2002 (first entry)
XX
XX Human POSHL1 scanning oligonucleotide SEQ ID NO 280.
XX
XX Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KW gene therapy; transgenic; ss.
XX
XX Homo sapiens.
XX
XX EP1239051-A2.
XX
XX 11-SEP-2002.
XX
XX 28-JAN-2002; 2002EP-00001165.
XX
XX 30-JAN-2001; 2001WO-US000663.
XX
XX 30-JAN-2001; 2001WO-US000664.
XX
XX 30-JAN-2001; 2001WO-US000665.
XX
XX 30-JAN-2001; 2001WO-US000666.
XX
XX 30-JAN-2001; 2001WO-US000667.
XX
XX 30-JAN-2001; 2001WO-US000668.
XX
XX 30-JAN-2001; 2001WO-US000669.
XX
XX 23-MAY-2001; 2001US-00864761.
XX
XX 10-OCT-2001; 2001US-0328205P.
XX
XX
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PA (AEOM-) AEOMICA INC.
XX Shannon M;
PI WPI; 2002-684061/74.
XX Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL
PT -1, useful for treating disorders associated with decreased expression or
PT activity of human POSHL1.
XX Example 2; SEQ ID NO 280; 60pp + Sequence Listing; English.
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
CC acids (S1, AB883999), a sequence having 65% sequence identity to (S1),
CC (S1) having 95% deviations, especially conservative substitutions or a
CC fragment of the sequences comprising at least 8 contiguous amino acids.
CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
CC adaptor protein that interacts with Rho family small GTPases as well as
CC for identifying a specific binding partner. (I) and nucleic acids (II)
CC encoding (I) are useful for diagnosing, monitoring disease and treating
CC caused by altered expression of human POSHL1 including diagnosing and
CC treating cancer, they useful in the development of vaccines and (II) is
CC useful in gene therapy. (II) is useful for constructing microarrays which
CC are useful for measuring and for surveying gene expression and creating
CC transgenic non-human animals capable of producing the proteins. The
CC present sequence is that of a scanning oligonucleotide useful in examples
CC of the invention. Note: The present sequence did not form part of the
CC printed specification, but is based on sequence information supplied to
CC Derwent by the European Patent Office
XX SQ Sequence 17 BP; 2 A; 4 C; 5 G; 6 T; 0 U; 0 Other;

Query Match          0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 696 GGCACCTCAAGGAGATCA 712
Db 17 GGCACCTCAGAGATCA 1

RESULT 1329
ABV91270
ID ABV91270 standard; DNA; 17 BP.
XX AC ABV91270;
XX DT 23-DEC-2002 (first entry)
XX DE Human POSHL1 scanning oligonucleotide SEQ ID NO 1983.
XX DE Human; POSHL 1; SH3 domain; POSH-like signalling protein 1; oncogene;
KW Rho GTPase; signal transduction; gene expression; cancer; vaccine;
KW Gene therapy; transgenic; ss.
XX OS Homo sapiens.
XX PN EP1239051-A2.
XX XX EP1239051-A2.
XX PD 11-SEP-2002.
XX PF 28-JAN-2002; 2002EP-00001165.
XX PR 30-JAN-2001; 2001WO-US000663.
XX PR 30-JAN-2001; 2001WO-US000664.
XX PR 30-JAN-2001; 2001WO-US000665.
XX PR 30-JAN-2001; 2001WO-US000666.
XX PR 30-JAN-2001; 2001WO-US000667.
XX PR 30-JAN-2001; 2001WO-US000668.
XX PR 30-JAN-2001; 2001WO-US000669.
XX PR 30-JAN-2001; 2001WO-US000670.

PR 23-MAY-2001; 2001US-00864761.
PR 10-OCT-2001; 2001US-0328205P.
XX (AEOM-) AEOMICA INC.
XX Shannon M;
PI WPI; 2002-684061/74.
XX Novel human SH3 domain (POSH)-like signaling protein 1 polypeptide, POSHL
PT -1, useful for treating disorders associated with decreased expression or
PT activity of human POSHL1.
XX Example 2; SEQ ID NO 1983; 60pp + Sequence Listing; English.
XX The invention relates to an isolated SH3 domain (POSH)-like signalling
CC protein 1 (POSHL 1) polypeptide (I), comprising a sequence of 730 amino
CC acids (S1, AB883999), a sequence having 65% sequence identity to (S1),
CC (S1) having 95% deviations, especially conservative substitutions or a
CC fragment of the sequences comprising at least 8 contiguous amino acids.
CC Human POSHL 1 is a proto-oncogene/oncogene product that functions as an
CC adaptor protein that interacts with Rho family small GTPases as well as
CC for identifying a specific binding partner. (I) and nucleic acids (II)
CC encoding (I) are useful for diagnosing, monitoring disease and treating
CC caused by altered expression of human POSHL1 including diagnosing and
CC treating cancer, they useful in the development of vaccines and (II) is
CC useful in gene therapy. (II) is useful for constructing microarrays which
CC are useful for measuring and for surveying gene expression and creating
CC transgenic non-human animals capable of producing the proteins. The
CC present sequence is that of a scanning oligonucleotide useful in examples
CC of the invention. Note: The present sequence did not form part of the
CC printed specification, but is based on sequence information supplied to
CC Derwent by the European Patent Office
XX SQ Sequence 17 BP; 2 A; 8 C; 6 G; 1 T; 0 U; 0 Other;

Query Match          0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1662 CCCTCACAGGCGGCC 1678
Db 1 CCCTCACGGGGAGCCC 17

RESULT 1330
ABK56437
ID ABK56437 standard; RNA; 17 BP.
XX AC ABK56437;
XX DT 02-JUL-2002 (first entry)
XX DE Human CLCA1 gene enzymatic nucleic acid #808.
XX DE Human; chloride channel calcium activated 1; CLCA1; ss; aniaesthatic;
KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;
KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;
KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;
KW acetylcycteine.
XX OS Homo sapiens.
XX PN WO200211674-A2.
XX PD 14-FEB-2002.
XX PF 09-AUG-2001; 2001WO-US024970.
XX PR 09-AUG-2000; 2000US-0224383P.
XX PR (RIBO-) RIBOZYME PHARM INC.

```

PA (SYNT ) SYNTAX USA LLC.  
 PA (THOM/) THOMPSON J.  
 XX Thompson J, Mcswiggen J, McKenzie T, Ayers D, Szymkowski DE;  
 XX Grupe A;  
 PI WPI; 2002-217145/27.  
 XX Enzymatic polynucleotide that down regulates expression of chloride  
 PT channel calcium activated gene, useful for treating Chronic obstructive  
 PT pulmonary disease (COPD), chronic bronchitis and asthma.  
 XX Claim 4; Page 70; 152pp; English.  
 XX The invention relates to enzymatic nucleic acid molecules that down  
 CC regulate expression of chloride channel calcium activated 1 (CLCA1) genes  
 CC by cleaving RNA derived from the genes. The nucleic acid sequences are  
 CC useful as pharmaceutical agents for treating conditions such as chronic  
 CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic  
 CC fibrosis, obstructive bowel syndrome and any other diseases or conditions  
 CC that are related to or will respond to the levels of CLCA1 in a cell or  
 CC tissue. The sequences are useful for reducing CLCA1 activity in a cell,  
 CC hence, are useful for treatment of a patient having a condition  
 CC associated with the level of CLCA1, where the invention further comprises  
 CC the use of one or more therapies under conditions suitable for the  
 CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,  
 CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The  
 CC nucleic acids of the invention are also used as diagnostic tools to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of CLCA1 RNA in a cell. This sequence represents an  
 CC enzymatic nucleic acid molecule of the invention  
 XX Sequence 17 BP; 6 A; 5 C; 4 G; 0 T; 2 U; 0 Other;  
 XX  
 XX Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 76.5%; Pred. No. 9e+02;  
 Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
 QY 1571 ACTCAGGCGCCAGCT 1587  
 Db 1 AAUCAAGCAGGCCAGCU 17  
 RESULT 1331  
 ABK57127  
 ID ABK57127 standard; RNA; 17 BP.  
 XX AC ABK57127;  
 XX 02-JUL-2002 (first entry)  
 XX Human CLCA1 gene enzymatic nucleic acid #1498.  
 XX Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic;  
 KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;  
 KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;  
 KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;  
 KW acetylcysteine.  
 XX Homo sapiens.  
 XX WO200211674-A2.  
 XX 14-FEB-2002.  
 XX 09-AUG-2001; 2001WO-US024970.  
 XX 09-AUG-2000; 2000US-0224383P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX (SYNT ) SYNTAX USA LLC.  
 XX (THOM/) THOMPSON J.

PI Thompson J, Mcswiggen J, McKenzie T, Ayers D, Szymkowski DE;  
 PI Grupe A;  
 XX WPI; 2002-217145/27.  
 XX Enzymatic polynucleotide that down regulates expression of chloride  
 PT channel calcium activated gene, useful for treating Chronic obstructive  
 PT pulmonary disease (COPD), chronic bronchitis and asthma.  
 XX Claim 4; Page 96; 152pp; English.  
 XX The invention relates to enzymatic nucleic acid molecules that down  
 CC regulate expression of chloride channel calcium activated 1 (CLCA1) genes  
 CC by cleaving RNA derived from the genes. The nucleic acid sequences are  
 CC useful as pharmaceutical agents for treating conditions such as chronic  
 CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic  
 CC fibrosis, obstructive bowel syndrome and any other diseases or conditions  
 CC that are related to or will respond to the levels of CLCA1 in a cell or  
 CC tissue. The sequences are useful for reducing CLCA1 activity in a cell,  
 CC hence, are useful for treatment of a patient having a condition  
 CC associated with the level of CLCA1, where the invention further comprises  
 CC the use of one or more therapies under conditions suitable for the  
 CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,  
 CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The  
 CC nucleic acids of the invention are also used as diagnostic tools to  
 CC examine genetic drift and mutations within diseased cells or to detect  
 CC the presence of CLCA1 RNA in a cell. This sequence represents an  
 CC enzymatic nucleic acid molecule of the invention  
 XX Sequence 17 BP; 6 A; 4 C; 5 G; 0 T; 2 U; 0 Other;  
 XX  
 XX Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 76.5%; Pred. No. 9e+02;  
 Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;  
 QY 1569 TGACTCAGGCGCCAG 1585  
 Db 1 UGAUCAAGCAGGCCAG 17  
 RESULT 1332  
 ABK56438  
 ID ABK56438 standard; RNA; 17 BP.  
 XX AC ABK56438;  
 XX 02-JUL-2002 (first entry)  
 XX Human CLCA1 gene enzymatic nucleic acid #809.  
 XX Human; chloride channel calcium activated 1; CLCA1; ss; antiasthmatic;  
 KW antiinflammatory; chronic obstructive pulmonary disease; COPD; asthma;  
 KW chronic bronchitis; cystic fibrosis; obstructive bowel syndrome;  
 KW oxygen therapy; bronchodilator; corticosteroid; vaccination; mucokinetic;  
 KW acetylcysteine.  
 XX Homo sapiens.  
 XX WO200211674-A2.  
 XX 14-FEB-2002.  
 XX 09-AUG-2001; 2001WO-US024970.  
 XX 09-AUG-2000; 2000US-0224383P.  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX (SYNT ) SYNTAX USA LLC.  
 XX (THOM/) THOMPSON J.  
 XX Thompson J, Mcswiggen J, McKenzie T, Ayers D, Szymkowski DE;  
 PI Grupe A;  
 XX

DR WPI; 2002-217145/27.  
XX Enzymatic polynucleotide that down regulates expression of chloride  
PT channel calcium activated gene, useful for treating Chronic obstructive  
PT pulmonary disease (COPD), chronic bronchitis and asthma.  
XX Claim 4; Page 70; 152pp; English.  
XX The invention relates to enzymatic nucleic acid molecules that down  
CC regulate expression of chloride channel calcium activated 1 (CLCA1) genes  
CC by cleaving RNA derived from the genes. The nucleic acid sequences are  
CC useful as pharmaceutical agents for treating conditions such as chronic  
CC obstructive pulmonary disease (COPD), chronic bronchitis, asthma, cystic  
CC fibrosis, obstructive bowel syndrome and any other diseases or conditions  
CC that are related to or will respond to the levels of CLCA1 in a cell or  
CC tissue. The sequences are useful for reducing CLCA1 activity in a cell,  
CC hence, are useful for treatment of a patient having a condition  
CC associated with the level of CLCA1, where the invention further comprises  
CC the use of one or more therapies under conditions suitable for the  
CC treatment, for example, oxygen therapy, bronchodilators, corticosteroids,  
CC antibacterials, vaccinations, acetylcysteine and mucokinetic agents. The  
CC nucleic acids of the invention are also used as diagnostic tools to  
CC examine genetic drift and mutations within diseased cells or to detect  
CC the presence of CLCA1 RNA in a cell. This sequence represents an  
CC enzymatic nucleic acid molecule of the invention  
XX  
SQ Sequence 17 BP; 4 A; 5 C; 4 G; 0 T; 4 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 70.6%; Pred. No. 9e+02;  
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;  
QY 1575 AGCGAGGCCAGCTTCC 1591  
Db 1 AAGCAGGCCAGCUUUC 17  
RESULT 1333  
ACN06742/c  
ID ACN06742 standard; RNA; 17 BP.  
XX  
AC ACN06742;  
XX  
XX  
DT 22-APR-2004 (first entry)  
XX  
DE WNV Amberzyme substrate SEQ ID NO 6745.  
XX  
KW WNV, West Nile Virus; antiinflammatory; cytostatic; hepatotropic;  
KW virucide; neuroprotective; antibacterial; replication; pancreatitis;  
KW encephalitis; myocarditis; meningitis; infection; hepatitis;  
KW liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;  
KW Amberzyme; Zinzyme; ss.  
XX  
OS West Nile Virus.  
XX  
XX WO200268637-A2.  
XX  
XX 06-SEP-2002.  
XX  
XX 19-OCT-2001; 2001WO-US048350.  
XX  
XX 20-OCT-2000; 2000US-0242411P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX (BLAT/) BLATT L.  
XX (MCSW/) MCSWIGGEN J A.  
XX Blatt L, Mcswiggen JA;  
XX WPI; 2002-706994/76.  
XX  
XX New nucleic acid molecule that modulates replication of West Nile Virus  
PT (WNV), useful for treating a condition related to WNV infection e.g.  
PT

PT pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.  
XX  
XX Claim 23; SEQ ID NO 6745; 495pp; English.  
XX  
CC The invention relates to nucleic acid molecules that modulate replication  
CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for  
CC treating a condition related to WNV infection e.g. pancreatitis,  
CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,  
CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid  
CC molecule is selected from the group of ribozymes consisting of  
CC Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The  
CC nucleic acid molecules further comprise at least five ribose residues, at  
CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at  
CC least three of the 5' terminal nucleotides and a 3' end modification of a  
CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080  
CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given  
CC in the specification. The present sequence is that of a nucleic acid  
CC molecule of the invention  
XX  
SQ Sequence 17 BP; 1 A; 2 C; 9 G; 0 T; 5 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 431 ACCATCCCCCGCAG 447  
Db 17 ACCAACCCCCGCGATG 1  
RESULT 1334  
ACN10397  
ID ACN10397 standard; RNA; 17 BP.  
XX  
AC ACN10397;  
XX  
XX  
DT 22-APR-2004 (first entry)  
XX  
DE WNV minus strand Inozyme substrate SEQ ID NO 10400.  
XX  
KW WNV, West Nile Virus; antiinflammatory; cytostatic; hepatotropic;  
KW virucide; neuroprotective; antibacterial; replication; pancreatitis;  
KW encephalitis; myocarditis; meningitis; infection; hepatitis;  
KW liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;  
KW Amberzyme; Zinzyme; ss.  
XX  
OS West Nile Virus.  
XX  
XX WO200268637-A2.  
XX  
XX 06-SEP-2002.  
XX  
XX 19-OCT-2001; 2001WO-US048350.  
XX  
XX 20-OCT-2000; 2000US-0242411P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
XX (BLAT/) BLATT L.  
XX (MCSW/) MCSWIGGEN J A.  
XX Blatt L, Mcswiggen JA;  
XX WPI; 2002-706994/76.  
XX  
XX New nucleic acid molecule that modulates replication of West Nile Virus  
PT (WNV), useful for treating a condition related to WNV infection e.g.  
PT pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.  
XX  
XX Claim 23; SEQ ID NO 10400; 495pp; English.  
XX  
XX The invention relates to nucleic acid molecules that modulate replication  
CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for  
CC treating a condition related to WNV infection e.g. pancreatitis,

CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,  
CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid  
CC molecule is selected from the group of ribozymes consisting of  
CC Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The  
CC nucleic acid molecules further comprise at least five ribose residues, at  
CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at  
CC least three of the 5' terminal nucleotides and a 3' end modification of a  
CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080  
CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given  
CC in the specification. The present sequence is that of a nucleic acid  
CC molecule of the invention

XX SQ Sequence 17 BP; 5 A; 8 C; 2 G; 0 T; 2 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 82.4%; Pred. No. 9e+02; Indels 0; Gaps 0;  
Matches 14; Conservative 1; Mismatches 2;

QY 433 CATCCCCCAGCAAGAT 449  
||| ||||| ||||| |||

DB 1 CAACCCCCCGCAUGAU 17

RESULT 1335  
ACN05558/C  
ID ACN05558 standard; RNA; 17 BP.  
AC ACN05558;  
XX  
XX  
XX 22-APR-2004 (first entry)  
XX WNV Amberzyme substrate SEQ ID NO 5561.  
DE  
XX  
XX WNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic;  
KW virucide; neuroprotective; antibacterial; replication; pancreatitis;  
KW encephalitis; myocarditis; meningitis; infection; hepatitis;  
KW liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;  
KW Amberzyme; Zinzyme; ss.  
XX  
XX West Nile Virus.  
XX  
XX W0200268637-A2.  
XX  
XX 06-SEP-2002.  
XX  
XX 19-OCT-2001; 2001WO-US048350.  
XX  
XX 20-OCT-2000; 2000US-0242411P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (BLAT/) BLATT L.  
PA (MCSW/) MCSWIGGEN J A.  
XX  
XX Blatt L, Mcswiggen JA;  
PI  
XX  
XX WPI; 2002-706994/76.  
XX  
XX New nucleic acid molecule that modulates replication of West Nile Virus  
PT (WNV), useful for treating a condition related to WNV infection e.g.  
PT pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.  
XX  
XX Claim 23; SEQ ID NO 5561; 495pp; English.  
XX  
XX The invention relates to nucleic acid molecules that modulate replication  
CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for  
CC treating a condition related to WNV infection e.g. pancreatitis,  
CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,  
CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid  
CC molecule is selected from the group of ribozymes consisting of  
CC Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The  
CC nucleic acid molecules further comprise at least five ribose residues, at  
CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at  
CC least three of the 5' terminal nucleotides and a 3' end modification of a

CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080  
CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given  
CC in the specification. The present sequence is that of a nucleic acid  
CC molecule of the invention

XX SQ Sequence 17 BP; 3 A; 2 C; 6 G; 0 T; 6 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2;

QY 477 ATCACTACCACTGACA 493  
||| ||||| ||||| |||

DB 17 ATCAATTACCACTGACA 1

RESULT 1336  
ACN03580/C  
ID ACN03580 standard; RNA; 17 BP.  
XX  
XX ACN03580;  
XX  
XX 22-APR-2004 (first entry)  
XX WNV Zinzyme substrate SEQ ID NO 3583.  
DE  
XX  
XX WNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic;  
KW virucide; neuroprotective; antibacterial; replication; pancreatitis;  
KW encephalitis; myocarditis; meningitis; infection; hepatitis;  
KW liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;  
KW Amberzyme; Zinzyme; ss.  
XX  
XX West Nile Virus.  
XX  
XX W0200268637-A2.  
XX  
XX 06-SEP-2002.  
XX  
XX 19-OCT-2001; 2001WO-US048350.  
XX  
XX 20-OCT-2000; 2000US-0242411P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA (BLAT/) BLATT L.  
PA (MCSW/) MCSWIGGEN J A.  
XX  
XX Blatt L, Mcswiggen JA;  
PI  
XX  
XX WPI; 2002-706994/76.  
XX  
XX New nucleic acid molecule that modulates replication of West Nile Virus  
PT (WNV), useful for treating a condition related to WNV infection e.g.  
PT pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.  
XX  
XX Claim 23; SEQ ID NO 3583; 495pp; English.  
XX  
XX The invention relates to nucleic acid molecules that modulate replication  
CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for  
CC treating a condition related to WNV infection e.g. pancreatitis,  
CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,  
CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid  
CC molecule is selected from the group of ribozymes consisting of  
CC Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The  
CC nucleic acid molecules further comprise at least five ribose residues, at  
CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at  
CC least three of the 5' terminal nucleotides and a 3' end modification of a  
CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080  
CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given  
CC in the specification. The present sequence is that of a nucleic acid  
CC molecule of the invention

XX SQ Sequence 17 BP; 4 A; 1 C; 8 G; 0 T; 4 U; 0 Other;

```
Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1491 TCCTGACACTACTTCCCA 1507
Db 17 TCCAGACACTCCTCTCCA 1

RESULT 1337
ACN10758/c
ID ACN10758 standard; RNA; 17 BP.
XX
AC ACN10758;
XX
DT 22-APR-2004 (first entry)
XX
DE WNV minus strand Inozyme substrate SEQ ID NO 10761.
XX
KW WNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
KW virucide; neuroprotective; antibacterial; replication; pancreatitis;
KW encephalitis; myocarditis; meningitis; infection; hepatitis;
KW liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;
KW Amberzyme; Zinzyme; ss.
XX
OS West Nile Virus.
XX
PN WO200268637-A2.
XX
PD 06-SEP-2002.
XX
PF 19-OCT-2001; 2001WO-US048350.
XX
PR 20-OCT-2000; 2000US-0242411P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGGEN J A.
XX
PI Blatt L, Mcswiggen JA;
XX
DR WPI; 2002-706994/76.
XX
PT New nucleic acid molecule that modulates replication of West Nile Virus
PT (WNV), useful for treating a condition related to WNV infection e.g.
PT pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX
PS Claim 23; SEQ ID NO 10761; 495pp; English.
XX
CC The invention relates to nucleic acid molecules that modulate replication
CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for
CC treating a condition related to WNV infection e.g. pancreatitis,
CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
CC molecule is selected from the group of ribozymes consisting of
CC Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The
CC nucleic acid molecules further comprise at least five ribose residues, at
CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at
CC least three of the 5' terminal nucleotides and a 3' end modification of a
CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
CC in the specification. The present sequence is that of a nucleic acid
CC molecule of the invention.
XX
SQ Sequence 17 BP; 2 A; 2 C; 6 G; 0 T; 7 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 894 CATCAACATGCACAACG 910
Db 17 CATCAACATGCACAACG 1

RESULT 1339
ACN12120
ID ACN12120 standard; RNA; 17 BP.
XX
AC ACN12120;
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RESULT 1338
ACN13855/c
ID ACN13855 standard; RNA; 17 BP.
XX
AC ACN13855;
XX
DT 22-APR-2004 (first entry)
XX
DE WNV minus strand DNazyme substrate SEQ ID NO 13858.
XX
KW WNV; West Nile Virus; antiinflammatory; cytostatic; hepatotropic;
KW virucide; neuroprotective; antibacterial; replication; pancreatitis;
KW encephalitis; myocarditis; meningitis; infection; hepatitis;
KW liver failure; cancer; cirrhosis; Hammerhead; Inozyme; DNazyme;
KW Amberzyme; Zinzyme; ss.
XX
OS West Nile Virus.
XX
PN WO200268637-A2.
XX
PD 06-SEP-2002.
XX
PF 19-OCT-2001; 2001WO-US048350.
XX
PR 20-OCT-2000; 2000US-0242411P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGGEN J A.
XX
PI Blatt L, Mcswiggen JA;
XX
DR WPI; 2002-706994/76.
XX
PT New nucleic acid molecule that modulates replication of West Nile Virus
PT (WNV), useful for treating a condition related to WNV infection e.g.
PT pancreatitis, meningitis, hepatocellular carcinoma or cirrhosis.
XX
PS Claim 23; SEQ ID NO 13858; 495pp; English.
XX
CC The invention relates to nucleic acid molecules that modulate replication
CC of the West Nile Virus (WNV). The nucleic acid molecules are useful for
CC treating a condition related to WNV infection e.g. pancreatitis,
CC encephalitis, myocarditis, meningitis, neurologic infection, hepatitis,
CC liver failure, hepatocellular carcinoma or cirrhosis. The nucleic acid
CC molecule is selected from the group of ribozymes consisting of
CC Hammerhead, Inozyme, G-cleaver, DNazyme, Amberzyme and Zinzyme. The
CC nucleic acid molecules further comprise at least five ribose residues, at
CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at
CC least three of the 5' terminal nucleotides and a 3' end modification of a
CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080
CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given
CC in the specification. The present sequence is that of a nucleic acid
CC molecule of the invention.
XX
SQ Sequence 17 BP; 2 A; 3 C; 5 G; 0 T; 7 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 888 GAACATCATCAACATGC 904
Db 17 GGACACATCAACATGC 1

RESULT 1339
ACN12120
ID ACN12120 standard; RNA; 17 BP.
XX
AC ACN12120;
```









CC nucleic acid molecules further comprise at least five ribose residues, at  
CC least ten 2'-O-methyl modifications, phosphorothioate linkages on at  
CC least three of the 5' terminal nucleotides and a 3' end modification of a  
CC 3'-3' inverted abasic moiety. Nucleic acid molecules SEQ ID NO 1 to 37080  
CC are claimed; however, SEQ ID NO 2194-2206 and 17502-17514 are not given  
CC in the specification. The present sequence is that of a nucleic acid  
CC molecule of the invention

XX Sequence 17 BP; 4 A; 3 C; 6 G; 0 T; 4 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1137 CTACTCCACTCAGATTG 1153  
|||||  
DB 17 CTACTCCACACAGTTG 1

RESULT 1346  
ADB03435  
ID ADB03435 standard; DNA; 17 BP.

XX ADB03435;

AC ADB03435;

DT 20-NOV-2003 (first entry)

DE Human MDZ7 scanning oligonucleotide SEQ ID 4421.

XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KW zinc finger protein; MDZ3; MDZ4; MDZ7; MDZ12; chromosome 7q22.1;  
KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KW developmental disorder; ss.

XX Homo sapiens.

OS Homo sapiens.

PN EP1281758-A2.

PD 05-FEB-2003.

PF 30-JUL-2002; 2002EP-00016874.

PR 02-AUG-2001; 2001US-00922181.

XX (AEOM-) AEOMICA INC.

PI Shannon M, Gu Y, Nguyen C;

XX WPI; 2003-423107/40.

XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MDZ3,  
PT MDZ4, MDZ7 or MDZ12, e.g. cancer.

XX Example 8; SEQ ID NO 4421; 103pp; English.

XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is  
CC encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2,  
CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome  
CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MDZ3,  
CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.

SQ Sequence 17 BP; 0 A; 10 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 921 CCTGTTCCAGCTGCTCC 937  
|||||  
DB 1 CCTGTTCCGCTGCCCC 17

RESULT 1347  
ABZ59905/c  
ID ABZ59905 standard; RNA; 17 BP.

XX ABZ59905;

AC ABZ59905;

DT 21-MAR-2003 (first entry)

DE Human K-Ras DNazyme substrate #17.

XX Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;

KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;

KW anti-rheumatic; cancer; AIDS; ss.

XX Homo sapiens.

OS Homo sapiens.

PN WO200297114-A2.

PD 05-DEC-2002.

PF 29-MAY-2002; 2002WO-US016840.

PR 29-MAY-2001; 2001US-0294140P.

PR 06-JUN-2001; 2001US-0296249P.

PR 10-SEP-2001; 2001US-0318471P.

XX (RIBO-) RIBOZYME PHARM INC.

PA Mcswiggen J;

PI WPI; 2003-140484/13.

DR Novel short interfering RNA and enzymatic nucleic acid useful for

PT treating cancer, modulates the expression of a nucleic acid encoding

PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.

XX Claim 58; Page 85; 185pp; English.

XX The invention relates to a novel short interfering RNA (siRNA) nucleic  
CC acid molecule or an enzymatic nucleic acid molecule, that modulates  
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,  
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic  
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-  
CC rheumatic activity. The nucleic acid molecules are useful for reducing  
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are  
CC also useful for treating breast, ovarian, colorectal, lung, prostate,  
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences  
CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,  
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human  
CC ribozymes of the invention

XX Sequence 17 BP; 2 A; 4 C; 9 G; 0 T; 2 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 559 AGCCGCCGCTCCGTCG 575  
|||||  
DB 17 AGCCGCCGCCACCTCG 1

```

RESULT 1348
ABZ65100
ID ABZ65100 standard; RNA; 17 BP.
XX
AC ABZ65100;
XX
DT 21-MAR-2003 (first entry)
XX
DE Human HER2 DNzyme substrate #557.
XX
KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
OS Homo sapiens.
XX
PN WO200297114-A2.
XX
PD 05-DEC-2002.
XX
PF 29-MAY-2002; 2002WO-US016840.
XX
PR 29-MAY-2001; 2001US-0294140P.
PR 06-JUN-2001; 2001US-0296249P.
PR 10-SEP-2001; 2001US-0318471P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Mcswiggen J;
XX
PD WPI; 2003-140484/13.
XX
PF Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
PS Claim 4; Page 143; 185pp; English.
XX
CC The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC also useful for treating breast, ovarian, colorectal, lung, prostate,
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC ribozymes of the invention
XX
SQ Sequence 17 BP; 6 A; 5 C; 4 G; 0 T; 2 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 9e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 654 CACCGTCTCAAGGCA 670
DB 1 CACAGUCUACAAGGCA 17

RESULT 1349
ABZ62059/c
ID ABZ62059 standard; RNA; 17 BP.
XX
AC ABZ62059;
XX
DT 21-MAR-2003 (first entry)
XX
DE Human H-Ras DNzyme target #850.
XX
KW Human; ribozyme; short interfering RNA; siRNA; HER2; K-Ras;
KW enzymatic nucleic acid; H-Ras; N-Ras; HIV; cytostatic; anti-HIV;
KW anti-rheumatic; cancer; AIDS; ss.
XX
OS Homo sapiens.
XX
PN WO200297114-A2.
XX
PD 05-DEC-2002.
XX
PF 29-MAY-2002; 2002WO-US016840.
XX
PR 29-MAY-2001; 2001US-0294140P.
PR 06-JUN-2001; 2001US-0296249P.
PR 10-SEP-2001; 2001US-0318471P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
PI Mcswiggen J;
XX
PD WPI; 2003-140484/13.
XX
PF Novel short interfering RNA and enzymatic nucleic acid useful for
PT treating cancer, modulates the expression of a nucleic acid encoding
PT HER2, K-Ras, H-Ras, N-Ras, and human deficiency virus sequences.
XX
PS Claim 4; Page 143; 185pp; English.
XX
CC The invention relates to a novel short interfering RNA (siRNA) nucleic
CC acid molecule or an enzymatic nucleic acid molecule, that modulates
CC expression of a nucleic acid molecule encoding HER2, K-Ras, H-Ras, N-Ras,
CC human immunodeficiency virus (HIV) or a component of HIV. The nucleic
CC acid molecule of the invention has cytostatic, anti-HIV, and anti-
CC rheumatic activity. The nucleic acid molecules are useful for reducing
CC HER2, K-Ras, H-Ras, and HIV activity in a cell. The nucleic acids are
CC also useful for treating breast, ovarian, colorectal, lung, prostate,
CC bladder, or pancreatic cancer, and HIV infection, and AIDS. The sequences
CC shown in ABZ59889 - ABZ62216, ABZ64544 - ABZ65531, ABZ66520 - ABZ66524,
CC ABZ66530 - ABZ66585 represent substrate/target sequences for the human
CC ribozymes of the invention
XX
SQ Sequence 17 BP; 6 A; 5 C; 4 G; 0 T; 2 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 9e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 654 CACCGTCTCAAGGCA 670
DB 1 CACAGUCUACAAGGCA 17

RESULT 1350
ACD59940
ID ACD59940 standard; RNA; 17 BP.
XX
AC ACD59940;
XX
DT 24-SEP-2003 (first entry)
XX
DE HCV DNzyme substrate sequence #1574.
XX
KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;
KW RNA stability; RNA expression; Cytosine synthase; antisense;
KW enzymatic nucleic acid; hammerhead ribozyme; DNzyme; inozyme; zinozyme;
KW anberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
KW HBV reverse transcriptase; Enhancer I region; viral replication;
KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
KW virucide; antiinflammatory; substrate; ss.
XX
OS Hepatitis C virus.
XX
PN WO200281494-Al.

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XX PD 17-OCT-2002.
XX KW
XX KW enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme;
XX KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
XX KW HBV reverse transcriptase; Enhancer I region; viral replication;
XX KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
XX KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
XX KW virucide; antiinflammatory; substrate; ss.
XX OS Hepatitis C virus.
XX PN WO200281494-A1.
XX PD 17-OCT-2002.
XX PF 26-MAR-2002; 2002WO-US009187.
XX XX
XX PR 26-MAR-2001; 2001US-00817879.
XX PR 08-JUN-2001; 2001US-00877478.
XX PR 08-JUN-2001; 2001US-0296876P.
XX PR 24-OCT-2001; 2001US-0335059P.
XX PR 05-DEC-2001; 2001US-0337055P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (BLAT/) BLATT L.
XX PA (MACE/) MACEJAK D.
XX PA (MCSW/) MCSWIGGEN J.
XX PA (MORR/) MORRISSEY D.
XX PA (PAVC/) PAVCO P.
XX PA (LEEP/) LEE P.
XX PA (DRAP/) DRAPER K.
XX PA (ROBE/) ROBERTS E.
XX PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
PI Draper K, Roberts E;
XX DR WPI; 2003-229207/22.
XX PT Novel compound useful for treating cirrhosis, liver failure.
XX PT hepatocellular carcinoma, or condition associated with hepatitis C virus
XX PT infection.
XX PS Claim 1; Page 262; 387pp; English.
XX CC The present invention relates to nucleic acid molecules which modulate
XX CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
XX CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
XX CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
XX CC inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed
XX CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
XX CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
XX CC as oligonucleotides that specifically bind the Enhancer I region of HBV
XX CC DNA. The nucleic acids may be used to modulate the expression of HBV
XX CC genes and HBV viral replication. Also disclosed is a method for screening
XX CC compounds and/or potential therapies directed against HBV, and compounds
XX CC that modulate the expression and/or replication of HCV. The compounds and
XX CC disease states related to HBV and HCV infection, replication and gene
XX CC expression such as cirrhosis, liver failure, and hepatocellular
XX CC carcinoma. The present sequence represents a substrate for one of the HCV
XX CC DNazyme or minus strand DNazyme sequences disclosed in the present
XX CC invention
XX SQ Sequence 17 BP; 2 A; 2 C; 11 G; 0 T; 2 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 9e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 351 GGGGTCGATGGGAGA 367
| | | | |
DB 1 GGGGUCUGCGGGAGA 17
RESULT 1351
ACD58066/c
ID ACD58066 standard; RNA; 17 BP.
XX AC
XX AC ACD58066;
XX XX
XX DT 23-SEP-2003 (first entry)
XX DE HCV DNazyme substrate sequence #652.
XX KW Nucleic acid molecule; Hepatitis C virus; HCV; Hepatitis B virus; HBV;

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KW RNA stability; RNA expression; RNA synthesis; antisense;
KW enzymatic nucleic acid; hammerhead ribozyme; DNAzyme; inozyme; zinzyme;
KW amberzyme; G-cleaver ribozyme; decoy molecule; aptamer;
KW HBV reverse transcriptase; Enhancer I region; viral replication;
KW degenerative; disease state; HBV infection; HCV infection; cirrhosis;
KW liver failure; hepatocellular carcinoma; hepatotropic; cytostatic;
KW virucide; antiinflammatory; substrate; ss.
XX OS Hepatitis C virus.
XX PN WO200281494-A1.
XX PD 17-OCT-2002.
XX PF 26-MAR-2002; 2002WO-US009187.
XX XX
XX PR 26-MAR-2001; 2001US-00817879.
XX PR 08-JUN-2001; 2001US-00877478.
XX PR 08-JUN-2001; 2001US-0296876P.
XX PR 24-OCT-2001; 2001US-0335059P.
XX PR 05-DEC-2001; 2001US-0337055P.
XX PA (RIBO-) RIBOZYME PHARM INC.
XX PA (BLAT/) BLATT L.
XX PA (MACE/) MACEJAK D.
XX PA (MCSW/) MCSWIGGEN J.
XX PA (MORR/) MORRISSEY D.
XX PA (PAVC/) PAVCO P.
XX PA (LEEP/) LEE P.
XX PA (DRAP/) DRAPER K.
XX PA (ROBE/) ROBERTS E.
XX PI Blatt L, Macejak D, Mcswiggen J, Morrissey D, Pavco P, Lee P;
PI Draper K, Roberts E;
XX DR WPI; 2003-229207/22.
XX PT Novel compound useful for treating cirrhosis, liver failure.
XX PT hepatocellular carcinoma, or condition associated with hepatitis C virus
XX PT infection.
XX PS Claim 1; Page 245; 387pp; English.
XX CC The present invention relates to nucleic acid molecules which modulate
XX CC the synthesis, expression and/or stability of Hepatitis C virus (HCV) or
XX CC Hepatitis B virus (HBV) RNA. The nucleic acid molecules include antisense
XX CC and enzymatic nucleic acids such as hammerhead ribozymes, DNazymes,
XX CC inozymes, zinzymes, amberzymes, and G-cleaver ribozymes. Also disclosed
XX CC are nucleic acid decoy molecules and aptamers that bind to HBV reverse
XX CC transcriptase and/or HBV reverse transcriptase primer sequences, as well
XX CC as oligonucleotides that specifically bind the Enhancer I region of HBV
XX CC DNA. The nucleic acids may be used to modulate the expression of HBV
XX CC genes and HBV viral replication. Also disclosed is a method for screening
XX CC compounds and/or potential therapies directed against HBV, and compounds
XX CC that modulate the expression and/or replication of HCV. The compounds and
XX CC disease states related to HBV and HCV infection, replication and gene
XX CC expression such as cirrhosis, liver failure, and hepatocellular
XX CC carcinoma. The present sequence represents a substrate for one of the HCV
XX CC DNazyme or minus strand DNazyme sequences disclosed in the present
XX CC invention
XX SQ Sequence 17 BP; 2 A; 7 C; 3 G; 0 T; 5 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1432 GCAGAGGATGCCATGAA 1448
| | | | |
DB 17 GCAGAGGATGCCATGCA 1

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RESULT 1352
ACC68725/c
ID ACC68725 standard; DNA; 17 BP.
XX
AC ACC68725;
XX
DT 01-JUL-2003 (first entry)
XX
DE Murine oligonucleotide associated with tumour supression, SEQ ID 5972.
XX
KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; murine;
KW tumour suppression; tumour reversion; apoptosis; virus resistance;
KW viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;
KW schizophrenia; ss.
XX
OS Mus musculus.
XX
PN WO2003025176-A2.
XX
PD 27-MAR-2003.
XX
PF 17-SEP-2002; 2002WO-IB004210.
XX
PR 17-SEP-2001; 2001FR-00011979.
XX
PA (MOLE-) MOLECULAR ENGINES LAB.
XX
PI Telerman A, Amson R, Tuijnder M;
XX
WPI; 2003-333167/31.
XX
New isolated nucleic acid, useful for treating viral diseases associated
with tumors and cell degeneration, also related polypeptides, antibodies
and transfected cells.
XX
PS Disclosure; Page 729; 738pp; French.
XX
CC The present invention relates to murine oligonucleotides (ACC62754-
ACC68806), which are associated with tumour suppression, tumour
reversion, apoptosis and virus resistance. The oligonucleotides are
useful as (1) as probes and primers for detecting, identifying,
quantifying and/or amplifying nucleic acid, e.g. as one component of a
gene chip; in vitro as (anti)sense reagents; and (2) for production of
recombinant polypeptides. The oligonucleotides are useful for preparation
of pharmaceuticals for prevention and/or treatment of viral diseases that
are characterised by development of tumours or cell degeneration,
specifically cancer but also Alzheimer's disease and schizophrenia
XX
SQ Sequence 17 BP; 2 A; 11 C; 2 G; 2 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02; Mismatches 0; Gaps 0;
Matches 15; Conservative 0; Indels 2;
XX
QY 1466 GTCTGGGGAGCGGATC 1482
Db 17 GGCTGGGGAGGGGATC 1
XX
RESULT 1353
ACC68431
ID ACC68431 standard; DNA; 17 BP.
XX
AC ACC68431;
XX
DT 01-JUL-2003 (first entry)
XX
DE Murine oligonucleotide associated with tumour supression, SEQ ID 5678.
XX
KW Cytostatic; virucide; neuroprotective; nootropic; neuroleptic; murine;
KW tumour suppression; tumour reversion; apoptosis; virus resistance;
KW viral disease; tumour; cell degeneration; cancer; Alzheimer's disease;
KW schizophrenia; ss.
XX
Mus musculus.
XX
WO2003025176-A2.
XX
27-MAR-2003.
XX
17-SEP-2002; 2002WO-IB004210.
XX
17-SEP-2001; 2001FR-00011979.
XX
(MOLE-) MOLECULAR ENGINES LAB.
XX
Telerman A, Amson R, Tuijnder M;
XX
WPI; 2003-333167/31.
XX
New isolated nucleic acid, useful for treating viral diseases associated
with tumors and cell degeneration, also related polypeptides, antibodies
and transfected cells.
XX
PS Disclosure; Page 729; 738pp; French.
XX
CC The present invention relates to murine oligonucleotides (ACC62754-
ACC68806), which are associated with tumour suppression, tumour
reversion, apoptosis and virus resistance. The oligonucleotides are
useful as (1) as probes and primers for detecting, identifying,
quantifying and/or amplifying nucleic acid, e.g. as one component of a
gene chip; in vitro as (anti)sense reagents; and (2) for production of
recombinant polypeptides. The oligonucleotides are useful for preparation
of pharmaceuticals for prevention and/or treatment of viral diseases that
are characterised by development of tumours or cell degeneration,
specifically cancer but also Alzheimer's disease and schizophrenia
XX
SQ Sequence 17 BP; 2 A; 11 C; 2 G; 2 T; 0 U; 0 Other;
XX
Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02; Mismatches 0; Gaps 0;
Matches 15; Conservative 0; Indels 2;
XX
QY 1479 GATCCACAAACTTCCTG 1495
Db 1 GATCCCAACATCCTG 17
XX
RESULT 1354
ADB42535
ID ADB42535 standard; DNA; 17 BP.
XX
AC ADB42535;
XX
DT 18-DEC-2003 (revised)
DT 04-DEC-2003 (first entry)
XX
XX
Tumour suppression/reversion associated nucleotide #2858.
XX
CYTOSTATIC; antiviral; neuroprotective; nootropic; neuroleptic; ss;
primer; probe; tumour suppression; tumour reversion; apoptosis;
virus resistance; transgenic animals; Alzheimer's disease; schizophrenia;
diagnosis.
XX
Homo sapiens.
XX
WO2003040369-A2.
XX
15-MAY-2003.
XX
17-SEP-2002; 2002WO-IB004219.
XX
17-SEP-2001; 2001FR-00011981.
XX
(MOLE-) MOLECULAR ENGINES LAB.
XX

```

PI Telerman A, Amson R, Tuijnder M;  
XX WPI; 2003-441574/41.  
XX  
PT New nucleic acid encoding human prostate membrane-specific antigen,  
PT useful e.g. for treatment of tumors and viral infection, also related  
PT polypeptide and antibodies.  
XX  
PS Disclosure; Page 366; 771pp; French.  
XX  
CC The invention relates to the isolation of 6327 nucleotide sequences,  
CC fragments of at least 15 consecutive nucleotides of these nucleotides, a  
CC sequence having at least 80% identity, after optimal alignment, with the  
CC nucleotides, a sequence that hybridizes under stringent conditions with  
CC the nucleotides, or the complement, or corresponding RNA, of the  
CC nucleotides. The nucleotides are used as probes or primers for detecting,  
CC identifying, quantifying and/or amplifying nucleic acids, as in vitro  
CC sense and antisense sequences, of nucleotides involved in tumour  
CC suppression or reversion, apoptosis and or viral resistance, to produce  
CC recombinant polypeptides, and to prepare transgenic animals, as  
CC experimental models. The nucleotides (also vectors containing them and  
CC cells containing the vectors), the encoded polypeptides and antibodies  
CC (Ab) against the polypeptide are useful for prevention and/or treatment  
CC of viral infections or diseases characterized by development of tumours  
CC or cell degeneration (e.g. Alzheimer's disease or schizophrenia).  
CC Analysis of the expression of the nucleotides can be used for diagnosis  
CC and/or prognosis of these diseases. The nucleotides and polypeptides can  
CC also be used to screen for their specific interactive molecules,  
CC potentially useful for treating diseases associated with abnormal  
CC expression of the nucleotides.  
XX  
SQ Sequence 17 BP; 7 A; 2 C; 6 G; 2 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 127 GATCGGATGAGAGAGAT 143  
DB 1 GATCGGAGCAGAGAT 17  
  
RESULT 1355  
ADC03574  
ID ADC03574 standard; DNA; 17 BP.  
XX  
AC ADC03574;  
XX  
DT 18-DEC-2003 (first entry)  
XX  
DE Human Na/H exchanger-like protein 1 gene oligonucleotide #21.  
XX  
KW ss; gene therapy; vaccine; sodium/hydrogen exchanger like protein;  
KW NHELP1; passive replacement therapy; vaccine; diagnosis.  
XX  
OS Homo sapiens.  
XX  
FN EP1273660-A2.  
XX  
PD 08-JAN-2003.  
XX  
PF 25-JAN-2002; 2002EP-00001160.  
XX  
PR 30-JAN-2001; 2001WO-US000666.  
PR 23-MAY-2001; 2001US-00864761.  
PR 21-DEC-2001; 2001US-0343331P.  
XX  
PA (AEOM-) AEOMICA INC.  
XX  
PI Gu Y;  
XX  
DR WPI; 2003-302724/30.  
XX

PT New human sodium-hydrogen exchanger like protein 1 (NHELP1), useful as a  
PT passive replacement therapy or as a vaccine for treating or preventing  
PT disorders associated with aberrant expression or activity of human  
PT NHELP1.  
XX  
PS Example 2; SEQ ID NO 61; 468pp; English.  
XX  
CC The invention relates to a nucleic acid molecule which encodes a Na<sup>+</sup>/H<sup>+</sup>  
CC exchanger like protein (NHELP1). The NHELP1 nucleic acid molecule, NHELP1  
CC polypeptide, an antibody against the protein or its antigen-binding  
CC fragment is useful in therapy. The NHELP1 nucleic acid molecule, NHELP1  
CC polypeptide and an agonist are particularly useful for manufacturing a  
CC medicament for treating or preventing a disorder associated with  
CC decreased expression or activity of human NHELP1. The antibody or its  
CC antigen-binding fragment, and an antagonist, are useful for manufacturing  
CC a medicament for treating or preventing a disorder associated with  
CC increased expression or activity of human NHELP1. The NHELP1 nucleic acid  
CC or protein is useful as passive replacement therapy, as a vaccine, or in  
CC diagnostic methods. This sequence corresponds to a 17-mer oligonucleotide  
CC spanning the sequence of the human NHELP1 gene (ADC03514).  
XX  
SQ Sequence 17 BP; 7 A; 4 C; 2 G; 4 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 88.2%; Pred. No. 9e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1251 TATCTTAGGAACCCCAA 1267  
DB 1 TATCTAGGAATCCCAA 17  
  
RESULT 1356  
ADI48635/c  
ID ADI48635 standard; DNA; 17 BP.  
XX  
AC ADI48635;  
XX  
DT 15-APR-2004 (first entry)  
XX  
DE Human tumour suppression/reversion-related DNA sequence SeqID1138.  
XX  
KW tumour suppression; tumour reversion; apoptosis; virus resistance;  
KW cytostatic; virucide; neuroprotective; nootropic; neuroleptic; probe;  
KW primer; PCR; Gene chip; antisense; viral disease; tumour;  
KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.  
XX  
OS Homo sapiens.  
XX  
FN WO2003025177-A2.  
XX  
PD 27-MAR-2003.  
XX  
PF 17-SEP-2002; 2002WO-IB004523.  
XX  
PR 17-SEP-2001; 2001FR-00011980.  
XX  
PA (MOLE-) MOLECULAR ENGINES LAB.  
XX  
PI Telerman A, Amson R, Tuijnder M;  
XX  
DR WPI; 2003-313354/30.  
XX  
PT New isolated nucleic acid, useful for treating viral diseases associated  
PT with tumors and cell degeneration, also related polypeptides, antibodies  
PT and transfected cells.  
XX  
PS Disclosure; SEQ ID NO 1138; 30pp; French.  
XX  
CC This invention relates to novel isolated nucleic acid sequences involved  
CC in the phenomena of tumour suppression, tumour reversion, apoptosis  
CC and/or resistance to viruses. The invention may be useful for the  
CC development of compounds with a cytostatic, virucide, neuroprotective,

CC nontropic or neuroleptic activity. The DNA sequences may be useful as  
 CC probes and primers for detecting, indentifying, quantifying and/or  
 CC amplifying nucleic acid, for example as one component of a gene chip, in  
 CC vitro as antisense reagents and for production of recombinant  
 CC polypeptides. The invention may therefore be useful for preparation of  
 CC pharmaceuticals for prevention and/or treatment of viral diseases that  
 CC are characterised by development of tumours or cell degeneration.  
 CC specifically cancer but also Alzheimer's disease and schizophrenia. The  
 CC present sequence is that of a nucleic acid sequence of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/publishedpct\_sequences

XX Sequence 17 BP; 4 A; 3 C; 6 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
 Best Local Similarity 88.2%; Pred. No. 9e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 195 CAAATGTCCTGACG 211

Db 17 CAAATGTCCTGACG 1

RESULT 1357

AD149956/C

ID AD149956 standard; DNA; 17 BP.

XX AC

XX AD149956;

XX AC

DT 15-APR-2004 (first entry)

DE Human tumour suppression/reversion-related DNA sequence SeqID2459.

XX tumour suppression; tumour reversion; apoptosis; virus resistance;  
 KW cytostatic; virucide; neuroprotective; nontropic; neuroleptic; probe;  
 KW primer; PCR; gene chip; antisense; viral disease; tumour;  
 KW cell degeneration; cancer; Alzheimer's disease; schizophrenia; ds; human.

XX Homo sapiens.

OS WO2003025177-A2.

XX WO2003025177-A2.

XX 27-MAR-2003.

XX 17-SEP-2002; 2002WO-IB004523.

XX 17-SEP-2001; 2001FR-00011980.

XX (MOLE-) MOLECULAR ENGINES LAB.

XX Telexman A, Amson R, Tuijnder M;

XX WPI; 2003-313354/30.

XX New isolated nucleic acid, useful for treating viral diseases associated

XX with tumors and cell degeneration, also related polypeptides, antibodies

XX and transfected cells.

XX Disclosure; SEQ ID NO 2459; 30pp; French.

XX This invention relates to novel isolated nucleic acid sequences involved

XX in the phenomena of tumour suppression, tumour reversion, apoptosis

XX and/or resistance to viruses. The invention may be useful for the

XX development of compounds with a cytostatic, virucide, neuroprotective,

XX nontropic or neuroleptic activity. The DNA sequences may be useful as

XX probes and primers for detecting, indentifying, quantifying and/or

XX amplifying nucleic acid, for example as one component of a gene chip, in

XX vitro as antisense reagents and for production of recombinant

XX polypeptides. The invention may therefore be useful for preparation of

XX pharmaceuticals for prevention and/or treatment of viral diseases that

XX are characterised by development of tumours or cell degeneration,

XX specifically cancer but also Alzheimer's disease and schizophrenia. The

CC present sequence is that of a nucleic acid sequence of the invention.  
 CC Note: The sequence data for this patent did not form part of the printed  
 CC specification, but was obtained in electronic format directly from WIPO  
 CC at ftp.wipo.int/pub/publishedpct\_sequences

XX Sequence 17 BP; 3 A; 5 C; 2 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 9e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1412 AGGGTCGAAATCGATC 1428

Db 17 AGGGTAAATCGATC 1

RESULT 1358

ADL51894

ID ADL51894 standard; RNA; 17 BP.

XX AC

XX ADL51894;

XX AC

DT 20-MAY-2004 (first entry)

XX Human PTGDR substrate sequence #1013.

XX antisense oligonucleotide; neurite growth inhibitor; NOGO;  
 KW prostaglandin D2 receptor; PTGDR; IkappaB kinase; IKK;  
 KW protein kinase PKR; cerebrovascular accident;  
 KW central nervous system injury; CNS injury; spinal cord injury; cancer;  
 KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;  
 KW restenosis; asthma; Crohn's disease; diabetes; obesity;  
 KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;  
 KW graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis;  
 KW allergy; asthma; allergic rhinitis; atopic dermatitis; human PTGDR;  
 KW substrate; ds.

XX Unidentified.

XX WO200281628-A2.

XX 17-OCT-2002.

XX 03-APR-2002; 2002WO-US010512.

XX 05-APR-2001; 2001US-00827395.

XX 29-MAY-2001; 2001US-0294412P.

XX 28-AUG-2001; 2001US-0315315P.

XX (RIBO-) RIBOZYME PHARM INC.

XX Blatt L, Chowrira B, Haerberli P, Meswigen J, Fosnaugh K;

XX WPI; 2003-058513/05.

XX Novel enzymatic nucleic acid that down-regulates expression of neurite

XX growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or

XX protein kinase PKR genes, for treating cancer and inflammatory disease.

XX Claim 161; SEQ ID NO 5427; 317pp; English.

XX The invention comprises nucleic acids (e.g. antisense oligonucleotides)

XX that down regulate the expression or inhibit the function of a receptor

XX for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),

XX IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the

XX invention are useful for treating: cerebrovascular accident, central

XX nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,

XX lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,

XX restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune

XX disease, lupus, multiple sclerosis, transplant/graft rejection,

XX ischaemia/reperfusion injury, glomerulonephritis, sepsis, and allergic

XX conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The

XX nucleic acids of the invention are also useful for down-regulating the

CC expression of a target gene and as a diagnostic tool to examine genetic  
CC drifts and mutations within diseased cells or to detect the presence of a  
CC target RNA in a cell. The present RNA sequence represents a human PKR  
CC substrate sequence.

XX  
SQ Sequence 17 BP; 3 A; 5 C; 6 G; 0 T; 3 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 70.6%; Pred. No. 9e+02; Mismatches 0; Indels 0; Gaps 0;  
Matches 12; Conservative 3;

QY 317 CTGCACACAGATTGTG 333  
[:|||||:]  
Db 1 CUGCACCAGGACUGUG 17

RESULT 1359  
ADL47099  
ID ADL47099 standard; RNA; 17 BP.

XX  
AC ADL47099;

XX  
DT 20-MAY-2004 (first entry)

XX  
DE Human NOGO receptor zinzyme substrate sequence #86.

XX  
KW antisense oligonucleotide; neurite growth inhibitor; NOGO;  
KW prostaglandin D2 receptor; PTGDR; IkappaB kinase; IKK;  
KW protein kinase PKR; cerebrovascular accident;  
KW central nervous system injury; CNS injury; spinal cord injury; cancer;  
KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;  
KW restenosis; asthma; Crohn's disease; diabetes; obesity;  
KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;  
KW graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis;  
KW allergy; asthma; allergic rhinitis; atopic dermatitis;  
KW NOGO receptor zinzyme; substrate; ds.

XX  
OS Unidentified.

XX  
PN WO200281628-A2.

XX  
PD 17-OCT-2002.

XX  
PF 03-APR-2002; 2002WO-US010512.

XX  
PR 05-APR-2001; 2001US-00827395.

XX  
PR 29-MAY-2001; 2001US-0294412P.

XX  
PR 28-AUG-2001; 2001US-0315315P.

XX  
PA (RIBO-) RIBOZYME PHARM INC.

XX  
PI Blatt L, Chowrira B, Haeberli P, Mcswiggen J, Fosnaugh K;

XX  
DR WPI; 2003-058513/05.

XX  
PT Novel enzymatic nucleic acid that down-regulates expression of neurite  
PT growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or  
PT protein kinase PKR genes, for treating cancer and inflammatory disease.

XX  
PS Claim 9; SEQ ID NO 632; 317pp; English.

XX  
CC The invention comprises nucleic acids (e.g. antisense oligonucleotides)  
CC that down regulate the expression or inhibit the function of a receptor  
CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),  
CC IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the  
CC invention are useful for treating: cerebrovascular accident, central  
CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,  
CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,  
CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune  
CC disease, lupus, multiple sclerosis, transplant/graft rejection,  
CC ischaemia/reperfusion injury, glomerulonephritis, sepsis, and allergic  
CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The  
CC nucleic acids of the invention are also useful for down-regulating the

CC expression of a target gene and as a diagnostic tool to examine genetic  
CC drifts and mutations within diseased cells or to detect the presence of a  
CC target RNA in a cell. The present RNA sequence represents a human NOGO  
CC receptor zinzyme substrate sequence.

XX  
SQ Sequence 17 BP; 0 A; 6 C; 7 G; 0 T; 4 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;  
Best Local Similarity 70.6%; Pred. No. 9e+02; Mismatches 0; Indels 0; Gaps 0;  
Matches 12; Conservative 3;

QY 930 GCTGCTCCGTCGCTCG 946  
[:|||||:]  
Db 1 GCUGUCCGCGCCUGG 17

RESULT 1360  
ADL47974/C  
ID ADL47974 standard; RNA; 17 BP.

XX  
AC ADL47974;

XX  
DT 20-MAY-2004 (first entry)

XX  
DE Human IKK-gamma substrate sequence #484.

XX  
KW antisense oligonucleotide; neurite growth inhibitor; NOGO;  
KW prostaglandin D2 receptor; PTGDR; IkappaB kinase; IKK;  
KW protein kinase PKR; cerebrovascular accident;  
KW central nervous system injury; CNS injury; spinal cord injury; cancer;  
KW melanoma; lymphoma; glioma; inflammatory disease; rheumatoid arthritis;  
KW restenosis; asthma; Crohn's disease; diabetes; obesity;  
KW autoimmune disease; lupus; multiple sclerosis; transplant rejection;  
KW graft rejection; ischaemia; reperfusion; glomerulonephritis; sepsis;  
KW allergy; asthma; allergic rhinitis; atopic dermatitis; Human IKK-gamma;  
KW substrate; ds.

XX  
OS Unidentified.

XX  
PN WO200281628-A2.

XX  
PD 17-OCT-2002.

XX  
PF 03-APR-2002; 2002WO-US010512.

XX  
PR 05-APR-2001; 2001US-00827395.

XX  
PR 29-MAY-2001; 2001US-0294412P.

XX  
PR 28-AUG-2001; 2001US-0315315P.

XX  
PA (RIBO-) RIBOZYME PHARM INC.

XX  
PI Blatt L, Chowrira B, Haeberli P, Mcswiggen J, Fosnaugh K;

XX  
DR WPI; 2003-058513/05.

XX  
PT Novel enzymatic nucleic acid that down-regulates expression of neurite  
PT growth inhibitor receptor, prostaglandin D2 receptor, IkappaB kinase or  
PT protein kinase PKR genes, for treating cancer and inflammatory disease.

XX  
PS Claim 59; SEQ ID NO 1507; 317pp; English.

XX  
CC The invention comprises nucleic acids (e.g. antisense oligonucleotides)  
CC that down regulate the expression or inhibit the function of a receptor  
CC for a neurite growth inhibitor, NOGO, prostaglandin D2 receptor (PTGDR),  
CC IkappaB kinase (IKK), or protein kinase PKR. The nucleic acids of the  
CC invention are useful for treating: cerebrovascular accident, central  
CC nervous system (CNS) injury, spinal cord injury, cancer (e.g. melanoma,  
CC lymphoma or glioma), inflammatory disease (e.g. rheumatoid arthritis,  
CC restenosis or asthma), Crohn's disease, diabetes, obesity, autoimmune  
CC disease, lupus, multiple sclerosis, transplant/graft rejection,  
CC ischaemia/reperfusion injury, glomerulonephritis, sepsis, and allergic  
CC conditions (e.g. asthma, allergic rhinitis or atopic dermatitis). The  
CC nucleic acids of the invention are also useful for down-regulating the





```
RESULT 1363
ADI83406/c
ID ADI83406 standard; RNA; 17 BP.
XX
AC ADI83406;
XX
DT 03-JUN-2004 (first entry)
XX
DE HCV DNzyme substrate sequence #652.
XX
XX ss; enzymatic nucleic acid; RNA cleavage; hepatitis C virus; HCV;
KW HCV infection; type I interferon; DNzyme.
KW
XX Hepatitis C virus.
OS
XX US2003125270-A1.
FN
XX 03-JUL-2003.
PD
XX 18-DEC-2000; 2000US-00740332.
PF
XX 18-DEC-2000; 2000US-00740332.
XX
PA (BLAT/) BLATT L.
PA (MCSW/) MCSWIGGEN J.
PA (ROBE/) ROBERTS E.
PA (PAVC/) PAVCO P A.
PA (MACE/) MACEJACK D.
XX
PI Blatt L, Mcswiggen J, Roberts E, Pavco PA, Macejack D;
DR WPI; 2004-031273/03.
XX
XX Enzymatic nucleic acid molecules which specifically cleave RNA derived
PT from hepatitis C virus (HCV), useful for the treatment of HCV infections,
PT especially in combination with type I interferon therapy.
XX
XX Claim 1; SEQ ID NO 652; 198pp; English.
PS
XX The invention relates to an enzymatic nucleic acid molecule which
CC specifically cleaves RNA derived from hepatitis C virus (HCV), in which
CC the binding arms of the enzymatic nucleic acid molecule comprises
CC sequences complementary to any of the defined substrate sequences given
CC in the specification. The nucleic acid molecule may be administered for
CC the treatment of HCV infections, especially in combination with type I
CC interferons. The present sequence represents a HCV DNzyme substrate
CC sequence.
XX
SQ Sequence 17 BP; 2 A; 8 C; 2 G; 0 T; 5 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1432 GCAGAGGATGCCATCAA 1448
Dd 17 GGAGAGGATGCCATGGA 1

RESULT 1364
ADP46413/c
ID ADP46413 standard; DNA; 17 BP.
XX
AC ADP46413;
XX
DT 26-AUG-2004 (first entry)
XX
DE Extend primer 89 used to genotype human ICAM-1/ICAM-4/ICAM-5 SNP.
DE
KW breast cancer; cytostatic; gene therapy; human;
KW intercellular adhesion molecule; ICAM-1; human rhinovirus receptor; BB2;
KW

KW CD54; cell surface glycoprotein P3.58; ICAM-4;
KW Landsteiner-Wiener blood group; ICAM-5; telencephalin; chromosome 19p13;
KW ss; primer; PCR; SNP; single nucleotide polymorphism; probe.
XX
OS Homo sapiens.
XX
PN WO2004047623-A2.
XX
PD 10-JUN-2004.
XX
PF 25-NOV-2003; 2003WO-US037948.
XX
XX 25-NOV-2002; 2002US-0429136P.
PR
PR 24-JUL-2003; 2003US-0490234P.
XX
PA (SEQU-) SEQUENOM INC.
XX
XX Roth RB, Nelson MR, Braun A, Kammerer SM, Reneland R;
PI WPI; 2004-441051/41.
XX
XX Identifying a subject at risk of breast cancer by detecting the presence
PT of polymorphic variations in the ICAM, MAPK10, KIAA0861, NUMA1 or GALE
PT regions which are associated with breast cancer in a nucleic acid sample
PT from a subject.
XX
XX Example 4; Page 84; 289pp; English.
PS
XX The invention relates to a novel method for identifying a subject at risk
CC of breast cancer comprising detecting the presence or absence of one or
CC more polymorphic variations associated with breast cancer in a nucleic
CC acid sample from a subject. The method of the invention has cytostatic
CC applications and may be useful for identifying a subject at risk of
CC breast cancer, for early diagnosis, prevention and treatment of breast
CC cancer, possibly via gene therapy, as well as to analyse and predict a
CC response to a breast cancer treatment and in clinical drug trials. The
CC current sequence is that of an Extend primer (also described as probe) of
CC the invention which was used to genotype human intercellular adhesion
CC molecule ICAM-1/ICAM-4/ICAM-5 gDNA. ICAM-1 (human rhinovirus receptor;BB2
CC ;CD54;cell surface glycoprotein P3.58) has been mapped to chromosomal
CC position 19p13.3-p13.2, ICAM-4 (Landsteiner-Wiener blood group;LW) has
CC been mapped to chromosomal position 19p13.2-cen and ICAM-5
CC (telencephalin) has been mapped to chromosomal position 19p13.2.
XX
SQ Sequence 17 BP; 3 A; 2 C; 9 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1348 TTGAGCCAGCACCCCG 1364
Dd 17 TTGATCCACCCACCCCG 1

RESULT 1365
AAZ57670/c
ID AAZ57670 standard; DNA; 18 BP.
XX
XX AAZ57670;
XX
XX 05-APR-2000 (first entry)
DT
XX Human G-alpha-12 antisense inhibitor ISIS# 20658.
DE
XX G-alpha-12 inhibitor; antisense compound; cell differentiation; cancer;
KW cell growth; metastatic growth; ss; ISIS# 20658.
XX
XX Homo sapiens.
OS
XX US5998206-A.
FN
XX 07-DEC-1999.
PD
```

XX 23-FEB-1999; 99US-00256496.  
XX 23-FEB-1999; 99US-00256496.  
XX (ISIS-) ISIS PHARM INC.  
XX Cowser LM;  
XX WPI; 2000-095920/08.  
XX Antisense inhibition of human G-alpha-12 expression.  
XX Example 15; Col 38; 36pp; English.  
XX This is a human G-alpha-12 antisense nucleotide sequence. G-alpha-12 is a member of the G12/13 subfamily of G-proteins. The primary function of G-alpha-12 is in cell differentiation and growth. The invention relates to antisense compounds which are 8-30 nucleotides long (see AAZ57668-257746). The antisense molecules are targeted to the human G-alpha-12 nucleic acid molecule, and inhibit the expression of G-alpha-12. The molecules preferably have a modified internucleotide linkage, and at least one modified sugar moiety. The compounds target different regions of the human G-alpha-12 RNA. The expression of human G-alpha 12 is inhibited by contacting human cells or tissues in vitro with the antisense molecules. The oligonucleotides are used in modulating the function of nucleic acid molecules encoding G-alpha-12, ultimately modulating the amount of G-alpha-12 produced. The antisense compounds can be utilized for diagnostics, therapeutics, prophylaxis and as research agents and kits. They may be useful in the treatment of cancer, and metastatic growth  
XX Sequence 18 BP; 4 A; 4 C; 9 G; 1 T; 0 U; 0 Other;  
SQ

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 555 CCTCAGCCGCGCTCC 571  
DB 18 CCTCAGCCGCGCTGC 2

RESULT 1366  
AAQ03964  
ID AAQ03964 standard; DNA; 18 BP.  
XX AC AAQ03964;  
XX 22-AUG-1990 (first entry)  
XX Herpes simplex virus replication inhibitor 294.  
XX Herpes simplex virus; HSV; herpes; transactivating protein; TAP; ss.  
XX Synthetic.  
XX EP363059-A.  
XX 11-APR-1990.  
XX 26-SEP-1989; 89EP-00309754.  
XX 30-SEP-1988; 88US-00252225.  
XX (SCHE ) SCHERING CORP.  
XX Draper KG;  
XX WPI; 1990-109387/15.  
XX Inhibitor of herpes simplex virus replication - comprising oligomer complementary to initiation region of mRNA coding for HSV trans-

PT activating protein.  
XX Disclosure; Fig 1; 17pp; English.  
XX Oligomer hybridises to the transactivating protein region of the HSV genome blocking successful replication. Useful in prevention and treatment of infected cells  
XX Sequence 18 BP; 4 A; 3 C; 7 G; 4 T; 0 U; 0 Other;  
SQ

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 505 GAGGGCTACCTGGAGAA 521  
DB 1 GTGGGTTACCTGGAGAA 17

RESULT 1367  
AAT11975/C  
ID AAT11975 standard; DNA; 18 BP.  
XX AAT11975;  
XX 25-MAR-2003 (revised)  
DT 13-MAR-1996 (first entry)  
XX CMV antisense oligonucleotide (ISIS 5479).  
XX antisense; cytomegalovirus; CMV; human; therapy; prophylaxis; diagnosis;  
XX intermediate early complex; IE1; IE2; DNA polymerase gene; ss.  
XX Synthetic.  
XX Key Location/Qualifiers  
FH modified\_base 1..18  
FT /\*tag= a  
FT /note= "phosphorothioate backbone"  
XX US5442049-A.  
XX 15-AUG-1995.  
XX 25-JAN-1993; 93US-00009263.  
XX 19-NOV-1992; 92US-00927506.  
XX (ISIS-) ISIS PHARM INC.  
XX Baker B, Draper K, Anderson K;  
XX WPI; 1995-292538/38.  
XX New oligo-nucleotide inhibits cytomegalovirus replication - by binding to a portion of cytomegalovirus RNA, for the diagnosis, prophylaxis and treatment of CMV diseases.  
XX Example 10; Col 17; 66pp; English.  
XX AAT11971-84 are antisense oligonucleotides (ONS) against human cytomegalovirus (CMV) that displayed activities of at least 50 % of control (ISIS 2922 shown in AAT11961). It was found that up to 4 internal mismatches could be tolerated without loss of antiviral activity.  
XX Antisense ONS targeting CMV DNA or RNA coding for the IE1, IE2 or DNA polymerase proteins have been shown to be effective in therapy.  
XX prophylaxis and diagnosis of CMV infection. The ONS may be modified to reduce nuclease resistance and to increase their efficacy. Modifications include phosphorothioate backbones, alkyl and halogen-substituted sugar moieties at the 2' position. (Updated on 25-MAR-2003 to correct PF field.)  
XX Sequence 18 BP; 0 A; 5 C; 3 G; 10 T; 0 U; 0 Other;  
XX SQ

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 133 ATGAAGAAGATCAACG 149  
DB 18 AAGAAGAAGAGCAACG 2

RESULT 1368  
AAAT01677/C  
ID AAT01677 standard; DNA; 18 BP.  
XX AC AAT01677;  
XX DT 17-DEC-1995 (first entry)  
XX DE Peptide nucleic acid targetting CMV IE2 nuc sig 2.  
XX KW peptide nucleic acid; PNA; cytomegalovirus; CMV; papillomavirus;  
XX KW antiviral; diagnostic; ss.  
XX OS Synthetic.  
XX FH Key Location/Qualifiers  
FT misc\_feature 1..18  
FT /tag= a  
FT /note= "at least one (and preferably all) of the backbone  
FT subunits are composed of amide units, so that the  
FT oligomer consists of the nucleobases attached covalently  
FT to a polyamide backbone"  
XX  
XX W09504748-A1.  
XX  
XX PD 16-FEB-1995.  
XX PF 09-AUG-1994; 94WO-US009039.  
XX PR 09-AUG-1993; 93US-00104438.  
XX PA (ISIS-) ISIS PHARM INC.  
XX PI Anderson KP, Crooke ST, Mirabelli CK, Ecker DJ, Cowsert LM;  
XX WPI; 1995-090841/12.  
XX  
XX PT New peptide nucleic acid oligomers hybridisable to cytomegalovirus or  
XX papillomavirus - are stable anti-sense molecules with high affinity for  
XX single stranded DNA, used for treating infections.  
XX  
XX PS Claim 2; Page 44; 65pp; English.  
XX  
XX CC New oligomers are claimed which (A) have at least one peptide nucleic  
XX acid (PNA) subunit and (B) have a sequence hybridisable to AUG region, 5'  
XX untranslated region, intron/exon (I/E) junction or coding sequence of  
XX cytomegalovirus gene selected from DNA polymerase, IE1 and IE2, or  
XX hybridisable to the E, E2, E4, E5, E6, E7, I1 or I2 reading frames of a  
XX papillomavirus. The PNAs can be used to target RNA and single stranded  
XX DNA (ssDNA) to produce antisense-type gene regulation moieties. Hence  
XX they may be used therapeutically for modulating cytomegalovirus and  
XX papillomavirus processes and also as diagnostics (e.g., as probes for  
XX specific mRNAs). PNA oligomers have high affinity for complementary  
XX single stranded DNA. They are also able to form triple helices in which a  
XX first PNA strand binds with RNA or ssDNA and a second PNA strand binds  
XX with the resulting double helix or with the first PNA strand. The PNAs  
XX possess no significant charge and are water soluble, which facilitates  
XX cellular uptake. Further, since they contain amides of non-biological  
XX amino acids, they are biostable and resistant to enzymatic degradation by  
XX proteases. The present sequence targets CMV IE2 nuclear localisation  
XX signal 2  
XX  
XX Sequence 18 BP; 0 A; 5 C; 3 G; 10 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 133 ATGAAGAAGATCAACG 149  
DB 18 AAGAAGAAGAGCAACG 2

RESULT 1369  
AAAX73494  
ID AAX73494 standard; RNA; 18 BP.  
XX AC AAX73494;  
XX DT 28-JUL-1999 (first entry)  
XX DE Mouse flk-1 VEGF receptor hairpin ribozyme substrate #41.  
XX KW Vascular endothelial growth factor receptor; VEGF receptor; flt-1; flk-1;  
XX KW KDR; hamsterhead ribozyme; hairpin ribozyme; cleavage;  
XX KW tumour angiogenesis; psoriasis; rheumatoid arthritis; ocular disease;  
XX KW fms-like tyrosine kinase 1; kinase insert domain containing receptor;  
XX KW foetal liver kinase 1; ss.  
XX OS Mus sp.  
XX PN W09715662-A2.  
XX PD 01-MAY-1997.  
XX PF 25-OCT-1996; 96WO-US017480.  
XX PR 26-OCT-1995; 95US-0005974P.  
XX PR 11-JAN-1996; 96US-00584040.  
XX PA (RUBO-) RIBOZYME PHARM INC.  
XX PA (CHIR) CHIRON CORP.  
XX PI Pavco P, Mcswiggen J, Stinchcomb D, Escobedo J;  
XX WPI; 1997-259017/23.  
XX  
XX PT Nucleic acid molecule modulating VEGF receptor(s) gene expression or mRNA  
XX stability - useful for treating e.g. tumour angiogenesis, psoriasis,  
XX rheumatoid arthritis, etc., in a human patient.  
XX  
XX PS Claim 4; Page 152; 218pp; English.  
XX  
XX CC The present invention describes nucleic acid molecules which modulate the  
XX synthesis, expression and/or stability of a mRNA encoding 1 or more  
XX receptors of vascular endothelial growth factor (VEGF). A patient  
XX (preferably human) having a condition associated with the level of the  
XX fms-like tyrosine kinase 1 (flt-1), kinase insert domain containing  
XX receptor (KDR) and/or foetal liver kinase 1 (flk-1) (e.g. tumour  
XX angiogenesis, ocular diseases, psoriasis and rheumatoid arthritis) can be  
XX treated by administering the nucleic acid molecule or the expression  
XX vector to the patient. AAX67275 to AAX75752 represent specific examples  
XX of nucleic acid molecules from the present invention  
XX  
XX SQ Sequence 18 BP; 1 A; 6 C; 7 G; 0 T; 4 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 70.6%; Pred. No. 9.4e+02;  
Matches 12; Conservative 3; Mismatches 2; Indels 0; Gaps 0;

QY 1033 GACUUCGCGUUGGCCCG 1049  
DB 1 GACUUCGCGUUGGCCCG 17

RESULT 1370

AAV47637  
 ID AAV47637 standard; DNA; 18 BP.  
 XX  
 AC AAV47637;  
 XX  
 XX 25-MAR-2003 (revised)  
 DT 08-DEC-1998 (first entry)  
 XX  
 XX Primer 1, located in exon 3 and 4 of VEGF-B.  
 DE  
 XX  
 XX Primer; amplification; PCR; mouse; VEGF-B; allele; F2 offspring;  
 KW cysteine residue; intramolecular disulphide bond; transgenic animal; ss.  
 KW  
 XX Synthetic.  
 OS Mus sp.  
 OS  
 XX WO9836052-A1.  
 PN  
 XX 20-AUG-1998.  
 PD  
 XX 18-FEB-1998; 98WO-US003212.  
 PF  
 XX 18-FEB-1997; 97US-0038202P.  
 PR  
 XX (LUDW-) LUDWIG INST CANCER RES.  
 PA  
 XX Von Euler G, Aase K, Betsholtz C, Eriksson U, Pekny M;  
 PI Gebre-Medhin S, Li X;  
 PI  
 XX WPI; 1998-457107/39.  
 DR  
 XX Transgenic non-human animals - which contain cells with modified vascular  
 XX endothelial growth factor B gene for use in diagnostic and therapeutic  
 PT studies.  
 PT  
 XX Example 4; Page 22; 45pp; English.  
 PS  
 XX Primers AAV47637 and AAV47638 were used to amplify the wildtype VEGF-B  
 CC allele from tail DNA from F2 offspring, and can be located to exon 3 and  
 CC exon 4 of the mouse VEGF-B gene. F2 mice that contain the wild-type  
 CC allele were found to produce an amplified fragment of 316 bp upon PCR  
 CC with these primers, however mutant alleles will not be amplified by these  
 CC primers, due to most of exon 3 and all of exon 4 having been completely  
 CC deleted. These mutant mice produce a non-functional protein because the  
 CC deletion removes 7 out of the 8 cysteine residues, thus disrupting  
 CC intramolecular disulphide bonds. The transgenic animals can be used in  
 CC elucidating the effects of VEGF-B on physiological phenomena such as  
 CC permeability, inflammation and/or tissue repair. (Updated on 25-MAR-2003  
 CC to correct PI field.)  
 XX  
 SQ Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;  
 XX  
 Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 47 GACCGACGTGTGACGTG 63  
 Db 1 GCCCAGCTGTGTGACGTG 17  
 RESULT 1371  
 AAV53112  
 ID AAV53112 standard; DNA; 18 BP.  
 XX  
 AC AAV53112;  
 XX  
 XX 12-NOV-1998 (first entry)  
 DT  
 XX MEC class II Ea promoter CPRE sequence (-3 to +14 basepairs).  
 DE  
 XX CP2 recognition element; IL4; promoter; asthma; therapeutic composition;  
 KW CP2 function affector; Th1/Th2 cell balance regulation; immune response;  
 KW

immunological disease; allergic rhinitis, allergic conjunctivitis; CPRE;  
 dermatitis; urticaria; multiple sclerosis; arthritis; malignancy;  
 type I diabetes mellitus; parasitic infection; immunodeficient disorder;  
 T helper cell response; viral antigen; ss.  
 XX  
 OS Homo sapiens.  
 XX WO9836641-A1.  
 PN  
 XX 27-AUG-1998.  
 PD  
 XX 19-FEB-1998; 98WO-US003049.  
 PF  
 XX 20-FEB-1997; 97US-0037972P.  
 PR  
 XX (SCHE-) SCHEPENS EYE RES INST INC.  
 PA (JOHN-) JOHNS HOPKINS SCHOOL MEDICINE.  
 PA (SLOK) SLOAN KETTERING INST CANCER RES.  
 XX  
 PI Ono SJ, Casolaro V, Sheffery M, Swendeman SL;  
 PI WPI; 1998-467194/40.  
 DR  
 XX Use of affector(s) of CP2 function - for modulating immune responses for  
 XX treating e.g. allergies, auto-immune disease, infections,  
 PT immunodeficiency disorders or malignancies.  
 PT  
 XX Claim 8; Fig 4D; 58pp; English.  
 PS  
 XX Sequences shown in AAV53107 to AAV53114 represent oligonucleotides  
 CC homologous to the CP2 recognition element (CPRE) region and can interfere  
 CC with CP2/CPRE interaction. These oligonucleotides are inhibitors of CP2  
 CC function and can be used in a therapeutic composition of the invention. A  
 CC method of screening for such a CP2 function affector comprises providing  
 CC first and second samples of components for an assay for complex formation  
 CC between CP2 and a CPRE in the human IL4 promoter and causing the first  
 CC sample of components to react in the assay, where the extent of complex  
 CC formation between CP2 and a CPRE in the human IL4 promoter in the first  
 CC assay sample is determined. A candidate affector is added to the second  
 CC sample of components which is then caused to react in the assay, and the  
 CC extent of complex formation between CP2 and a CPRE in the human IL4  
 CC promoter in the second assay sample is determined. The extent of complex  
 CC formation between the two assay samples is compared to determine the  
 CC effect of the candidate affector. The therapeutic composition comprising  
 CC the affector is used for the interruption or enhancement of CP2 activity  
 CC and thus regulation of Th1/Th2 cell balance, for therapeutic control of  
 CC the immune response and immunological disease in a variety of conditions  
 CC including allergic rhinitis, allergic conjunctivitis, asthma, dermatitis,  
 CC urticaria, multiple sclerosis, type I diabetes mellitus, arthritis and  
 CC parasitic infection. CP2 or dominant negative CP2 may also be useful in  
 CC the management of immunodeficient disorders or malignancies by amplifying  
 CC T helper cell responses to viral antigen  
 XX  
 SQ Sequence 18 BP; 2 A; 6 C; 4 G; 6 T; 0 U; 0 Other;  
 XX  
 Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1456 TTCTTCTCCTCAGTCTGGG 1472  
 Db 1 TTCTGCTCTCAGTCTGGG 17  
 RESULT 1372  
 AAX17892/C  
 ID AAX17892 standard; DNA; 18 BP.  
 XX  
 AC AAX17892;  
 XX  
 XX 11-MAY-1999 (first entry)  
 DT  
 XX Anti-CMV oligonucleotide #5479.  
 XX

XX Antisense; oligonucleotide; immediate early; DNA polymerase; CMV;  
 KW cytomegalovirus; inhibition; replication; sugar modification;  
 KW phosphorothioate; infection; retinitis; ss.

XX Synthetic.  
 OS Human herpesvirus 5.  
 XX WO9845314-A1.  
 PN

XX 15-OCT-1998.  
 PD  
 XX 07-APR-1998; 98WO-US006895.  
 PF  
 XX 09-APR-1997; 97US-00838715.  
 PR

XX (ISIS-) ISIS PHARM INC.  
 PA  
 XX Draper KG, Kisner DL, Anderson KP, Chapman S;  
 XX WPI; 1998-568330/48.  
 DR

XX New antisense oligonucleotides that target cytomegalovirus nucleic acid -  
 FT particularly including 2-methoxyethoxy sugar modifications, especially  
 PT for treating viral retinitis, with long-lasting retention in the retina.  
 PT  
 XX Claim 7; Page 30; 99pp; English.  
 PS

XX Antisense oligonucleotides (AA17961-X17924) are targeted to a nucleic  
 CC acid (AA17925-X17948) encoding IE (immediate early) 1 or 2, or DNA  
 CC polymerase of cytomegalovirus (CMV) and are able to inhibit CMV  
 CC replication. Optionally the oligonucleotides include at least one 2'-(2-  
 CC methoxyethoxy) sugar modification or phosphorothioate internucleotide  
 CC linkages. The oligonucleotides are used to inhibit CMV infections (by in  
 CC vivo or in vitro contact with cells, tissues or body fluids), especially  
 CC to treat or prevent CMV infections, particularly retinitis  
 XX  
 SQ Sequence 18 BP; 0 A; 5 C; 3 G; 10 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 133 ATGAAGAAGATCAAAACG 149  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 18 AAGAAGAAGAGCAAAACG 2

RESULT 1373  
 AAZ41129/c  
 ID AAZ41129 standard; DNA; 18 BP.  
 XX  
 AC AAZ41129;  
 XX

XX 26-JAN-2000 (first entry)  
 DT  
 XX  
 XX Human G-alpha-11 phosphorothioate antisense oligonucleotide #33.  
 DE

XX Identification; genetic target; gene modulation; human; probe;  
 KW antisense oligonucleotide; phosphorothioate; PCR primer;  
 KW nucleotide sequence-based technology; antisense drug discovery;  
 KW target validation; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX WO9953101-A1.  
 PN  
 XX 21-OCT-1999.  
 PD  
 XX 13-APR-1999; 99WO-US008268.  
 PF  
 XX 13-APR-1998; 98US-0081483P.  
 PR

PR 28-APR-1998; 98US-00067638.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA

XX Cowsert LM, Baker BF, Mcneil J, Freier SM, Sasnor HM, Brooks DG;  
 PI Ohasi C, Wyatt JR, Borchers AH, Vickers TA;  
 XX WPI; 1999-620446/53.  
 DR

XX Identifying compounds which modulate expression of nucleic acids, used to  
 PT provide compounds having defined physical, chemical or bioactive  
 PT properties, e.g. antisense activity.  
 XX  
 PS Example 27; Page 108; 264pp; English.  
 XX

XX A method has been developed of defining a set of compounds that modulate  
 CC the expression of a target nucleic acid (tNA) sequence via binding of the  
 CC compounds with the tNA sequence. The method comprises generating a  
 CC library of virtual compounds in silico according to defined criteria, and  
 CC evaluating in silico the binding of the virtual compounds with the tNA  
 CC according to defined criteria. Also described are: (1) a method of  
 CC defining a set of oligonucleotides (ONS) that modulate the expression of  
 CC a tNA sequence via binding of the ONS with the tNA sequence comprising  
 CC generating a library of virtual compounds in silico according to defined  
 CC criteria, and evaluating in silico the binding of the virtual ONS with  
 CC the tNA according to defined criteria; and (2) a method of defining a set  
 CC of compounds that modulate the expression of a tNA sequence via binding  
 CC of the compounds with the tNA. The methods can be used for the generation  
 CC and identification of synthetic compounds having defined physical,  
 CC chemical or bioactive properties. Information gathered from assays of  
 CC such compounds is used to identify nucleic acid sequences that are  
 CC tractable to a variety of nucleotide sequence-based technologies, e.g.  
 CC antisense drug discovery and target validation. AAZ40852 to AAZ41220, and  
 CC AAZ52701 to AAZ52706, represent sequences used in the exemplification of  
 XX the present invention  
 XX  
 SQ Sequence 18 BP; 2 A; 8 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 512 ACCTGGAGAGCTGACC 528  
 | | | | | | | | | | | | | | | | | | | | | |  
 Db 17 ACGTGGAGAGCTGACC 1

RESULT 1374  
 AAZ31599/c  
 ID AAZ31599 standard; DNA; 18 BP.  
 XX  
 AC AAZ31599;  
 XX

XX 13-JAN-2000 (first entry)  
 DT  
 XX  
 XX Human IKB-Beta antisense inhibitor ISIS# 23583.  
 DE

XX Inhibitor-kappa B kinase-beta; IKB-beta; human; T-cell leukaemia; asthma;  
 KW inflammatory response; inflammatory disease; juvenile diabetes mellitus;  
 KW Graves' disease; rheumatoid arthritis; allograft rejection; diagnosis;  
 KW inflammatory bowel disease; multiple sclerosis; contact dermatitis;  
 KW rhinitis; allergy; hyperproliferative disorder; tumour; therapy;  
 KW antisense inhibitor; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX US5977341-A.  
 PN  
 XX 02-NOV-1999.  
 PD  
 XX 20-NOV-1998; 98US-00197008.  
 PF  
 XX

PR 20-NOV-1998; 98US-00197008.  
XX (ISIS-) ISIS PHARM INC.  
XX Monia BP, Cowser LM;  
PI WPI; 1999-619715/53.  
XX Antisense oligonucleotides inhibiting human Inhibitor-kappa B Kinase-  
PT beta, useful for treating conditions such as inflammation, asthma,  
PT diabetes, allograft rejection, allergies, hyperproliferative disorders or  
PT tumors.  
XX Claim 11; Col 40; 32pp; English.  
XX This sequence represents an antisense oligonucleotide (I) of the  
CC invention. (I) are 8 to 30 nucleotides in length and inhibit the  
CC expression of human Inhibitor-kappa B kinase-beta (IKB-beta). (I)  
CC inhibits the expression of human IKB-beta which plays a role in the  
CC development of T-cell leukaemia and in the activation of inflammatory  
CC responses. (I) is therefore useful for treating inflammatory diseases or  
CC disorders with an inflammatory component such as asthma, juvenile  
CC diabetes mellitus, Graves' disease, rheumatoid arthritis, allograft  
CC rejection, inflammatory bowel disease, multiple sclerosis, contact  
CC dermatitis, rhinitis and various allergies, or hyperproliferative  
CC disorders such as leukaemias and other tumours. (I) may also be used for  
CC detection of the above disorders  
XX  
SQ Sequence 18 BP; 5 A; 5 C; 6 G; 2 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 831 CACCCTTGCTTTGAGT 847  
Db 17 CACCCTGGCCTTTGAGT 1  
RESULT 1375  
AAK56422  
ID AAK56422 standard; DNA; 18 BP.  
XX  
AC AAK56422;  
XX  
XX 22-JUL-1999 (first entry)  
DT  
XX Human Herg-3 PCR primer SEQ ID NO:10.  
DE  
XX Human; erg subfamily; potassium ion channel protein; Herg-3;  
KW cardiac arrhythmia; long Q-T syndrome; PCR primer; ss.  
XX  
XX Synthetic.  
OS Homo sapiens.  
XX  
XX WO9920760-A2.  
PN  
XX 29-APR-1999.  
PD  
XX 21-OCT-1998; 98WO-US022286.  
PF  
XX 22-OCT-1997; 97US-00956242.  
PR  
XX (WISC ) WISCONSIN ALUMNI RES FOUND.  
PA  
XX Ganetzky BS, Titus SA;  
PI  
XX WPI; 1999-326594/27.  
XX  
XX Novel ion channel genes and proteins useful for identifying homologues  
PT and screening for therapeutics.  
XX  
XX Example; Page 15; 46pp; English.  
PS

XX The present sequence represents a PCR primer for Herg-3, a human erg  
CC subfamily of potassium ion channel protein. The erg genes encode  
CC potassium ion channel proteins. These proteins are implicated in the  
CC development of long Q-T syndrome, a rare, but often fatal, cardiac  
CC arrhythmia. The Herg-2 and -3 proteins can be used to identify modulators  
CC of the proteins, useful in therapeutics. The nucleic acids can be used  
CC for screening of homologues  
XX  
SQ Sequence 18 BP; 0 A; 6 C; 6 G; 6 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 930 GCTGCTCCGTCGCTCGG 946  
Db 2 GCTGCTCCGTCGCTCGG 18  
RESULT 1376  
AAZ19500/c  
ID AAZ19500 standard; DNA; 18 BP.  
XX  
AC AAZ19500;  
XX  
XX 15-NOV-1999 (first entry)  
DT  
XX Human G-alpha-11 phosphorothioate antisense oligonucleotide SEQ ID NO:40.  
DE  
XX Human; G-alpha-11; antisense oligonucleotide; inhibition; expression;  
KW phosphorothioate; ss.  
XX  
XX Synthetic.  
OS Homo sapiens.  
XX  
XX US951455-A.  
PN  
XX 14-SEP-1999.  
PD  
XX 04-DEC-1998; 98US-00205922.  
PF  
XX 04-DEC-1998; 98US-00205922.  
PR  
XX (ISIS-) ISIS PHARM INC.  
PA  
XX Cowser LM;  
PI  
XX WPI; 1999-539140/45.  
DE  
XX Inhibitory antisense compounds useful for the treatment of diseases  
PT associated with G-alpha-11.  
PT  
XX Claim 3; Col 40; 38pp; English.  
PS  
XX The present invention describes inhibitory antisense compounds of 8-30  
CC nucleotides, targeted to a nucleic acid molecule encoding human G-alpha-  
CC 11. AAZ19468 to AAZ19547 represent human G-alpha-11 phosphorothioate  
CC antisense oligonucleotides given in the present invention. The  
CC oligonucleotides may be useful for the treatment of diseases associated  
CC with G-alpha-11  
XX  
SQ Sequence 18 BP; 2 A; 8 C; 3 G; 5 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 512 ACCTGGAGAGCTGACC 528  
Db 17 ACCTGGAGAGCTGACC 1

```

RESULT 1377
AAA74957
ID AAA74957 standard; DNA; 18 BP.
XX
AC AAA74957;
XX
DT 02-JAN-2001 (first entry)
XX
DE PCR primer used to amplify a 316 bp fragment of murine VEGF-B gene.
XX
KW VEGF-B; vascular endothelial growth factor-B; heart abnormality;
KW ischemia; atrioventricular conduction defect; myocardium; heart disease;
KW PCR primer; ss.
XX
OS Mus sp.
XX
FN WO200052462-A1.
XX
PD 08-SEP-2000.
XX
PF 03-MAR-2000; 2000WO-US005465.
XX
PR 03-MAR-1999; 99US-0160083P.
XX
PA (LUDW-) LUDWIG INST CANCER RES.
XX
PI Aase K, Thoren P, Eriksson U;
XX
DR WPI; 2000-638114/61.
XX
PT Use of vascular endothelial growth factor B deficient animals for
PT screening atrioventricular conduction or ischemia modulating compounds,
PT and characterization of the biological roles of the growth factor.
XX
FS Example 4; Page 31; 58pp; English.
XX
CC PCR primers AAA74956-57 were used to amplify a 316 bp fragment from exons
CC 3 and 4 of the VEGF (vascular endothelial growth factor)-B. The primers
CC were used to analyse VEGF-B deficient transgenic mice. VEGF-B deficient
CC animals show heart abnormalities that appear to be caused by
CC atrioventricular conduction defects and ischemia of the myocardium. The
CC specification describes methods for screening a compound for
CC atrioventricular conduction or ischemia modulating activity. The method
CC comprises introducing the compound into a VEGF-B deficient non-human
CC animal, and assaying the effect on atrioventricular conduction or
CC ischemia. The methods are used for screening atrioventricular conduction
CC or ischemia modulating compounds, treatment or alleviation of these
CC conditions, diagnosis of heart disease characterized by loss of VEGF-B
CC expression, and detecting or diagnosing VEGF-B deficiency in heart of a
CC test subject
XX
SQ Sequence 18 BP; 2 A; 5 C; 6 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 9.4e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 47 GACCAGCAGTGTGACTG 63
Db 1 GCCCAGCTGTGTGACTG 17

RESULT 1378
AAA09733/C
ID AAA09733 standard; DNA; 18 BP.
XX
AC AAA09733;
XX
DT 23-JUN-2000 (first entry)
XX
DE G-alpha-i2 antisense inhibitor oligonucleotide #33 (ISIS #25844).
KW G-alpha-i2; antisense inhibitor; infection; inflammation; prevent;

```

```

KW tumour formation; treatment; inhibit; ss.
XX
OS Homo sapiens.
XX
FN US6040179-A.
XX
PD 21-MAR-2000.
XX
PF 25-JUN-1999; 99US-00339993.
XX
PR 25-JUN-1999; 99US-00339993.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Cowsert LM;
XX
DR WPI; 2000-270140/23.
XX
PT Novel antisense oligonucleotide containing compounds, useful for
PT inhibiting the expression of G-alpha-i2 in human cells and tissues and
PT treating infection, inflammation and cancer.
XX
PS Claim 1; Col 41; 31pp; English.
XX
CC This sequence represents an antisense oligonucleotide sequence targeted
CC to a nucleotide sequence encoding human G-alpha-i2. G-alpha-i2 is a
CC member of the Gi subfamily of G proteins, which is involved in hormonal
CC inhibition of adenylyl cyclase and in the regulation of plasma membrane
CC enzymes. The expression of G-alpha-i2 has been shown to be altered in
CC some tumours. Mice lacking the G-alpha-i2 gene display growth retardation
CC and develop adenocarcinoma of the colon and a form of lethal diffuse
CC colitis similar to ulcerative colitis in humans. The antisense molecules
CC are useful for inhibiting the expression of G-alpha-i2 in human cells or
CC tissues, and for treating and preventing various disorders such as
CC infection, inflammation and tumour formation. The antisense
CC oligonucleotides are also useful for research and diagnostic purposes
XX
SQ Sequence 18 BP; 3 A; 9 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 9.4e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1636 AGCGAGCGGCTCGAGGG 1652
Db 17 AGGCTGCTCTCGAGGG 1

RESULT 1379
AAA86683
ID AAA86683 standard; DNA; 18 BP.
XX
AC AAA86683;
XX
DT 04-DEC-2000 (first entry)
XX
DE Cdc 2 kinase hammerhead ribozyme recognitoin site #114.
XX
KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX
OS Mammalia.
XX
FN WO200032765-A2.
XX
PD 08-JUN-2000.
XX
PF 06-DEC-1999; 99WO-US028772.
XX
PR 04-DEC-1998; 98US-0110954P.
XX
PA (IMMU-) IMMUSOL INC.
XX
PI Tritz R, Welch PJ, Barber JR, Robbins JM;

```

XX WPI; 2000-412314/35.  
DR  
XX  
PT New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves  
PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,  
PT PCNA and Cyclin B1.  
XX  
XX  
PS Example 1; Page 21; 109pp; English.  
XX  
CC The present invention relates to a hairpin or hammerhead ribozyme,  
CC designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase  
CC other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.  
CC Representative examples of ribozyme recognition sites are given in  
CC AAA82415 to AAA86787. The ribozyme of the invention is useful for  
CC inhibiting restenosis by introduction of the ribozyme into cells. The  
CC ribozyme is resistant to endonuclease activity and hence is efficient in  
CC restenosis treatment  
XX  
XX Sequence 18 BP; 2 A; 5 C; 5 G; 6 T; 0 U; 0 Other;  
SQ

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1036 TTGGCTTGGCCGAGC 1052  
Db 1 TTGGCTTGGCCGAGC 17

RESULT 1380  
AAZ57669/c  
ID AAZ57669 standard; DNA; 18 BP.  
XX  
XX AAZ57669;  
AC  
XX  
DT 05-APR-2000 (first entry)  
XX  
DE Human G-alpha-12 antisense inhibitor ISIS# 20657.  
XX  
XX G-alpha-12 inhibitor; antisense compound; cell differentiation; cancer;  
KW cell growth; metastatic growth; ss; ISIS# 20657.  
XX  
XX Homo sapiens.  
OS  
XX  
XX US5998206-A.  
PN  
XX  
XX 07-DEC-1999.  
PD  
XX  
XX 23-FEB-1999; 99US-00256496.  
PF  
XX  
XX 23-FEB-1999; 99US-00256496.  
PR  
XX  
XX (ISIS-) ISIS PHARM INC.  
PA  
XX  
XX Cowser LM;  
PI  
XX  
XX WPI; 2000-095920/08.  
DR  
XX  
XX Antisense inhibition of human G-alpha-12 expression.  
PT  
XX  
XX Example 15; Col 38; 36pp; English.  
PS  
XX  
CC This is a human G-alpha-12 antisense nucleotide sequence. G-alpha-12 is a  
CC member of the G12/13 subfamily of G-proteins. The primary function of G-  
CC alpha-12 is in cell differentiation and growth. The invention relates to  
CC antisense compounds which are 8-30 nucleotides long (see AAZ57668-  
CC 257746). The antisense molecules are targeted to the human G-alpha-12  
CC nucleic acid molecule, and inhibit the expression of G-alpha-12. The  
CC molecules preferably have a modified internucleotide linkage, and at  
CC least one modified sugar moiety. The compounds target different regions  
CC of the human G-alpha-12 RNA. The expression of human G-alpha 12 is  
CC inhibited by contacting human cells or tissues in vitro with the  
CC antisense molecules. The oligonucleotides are used in modulating the

CC function of nucleic acid molecules encoding G-alpha-12, ultimately  
CC modulating the amount of G-alpha-12 produced. The antisense compounds can  
CC be utilized for diagnostics, therapeutics, prophylaxis and as research  
CC agents and kits. They may be useful in the treatment of cancer, and  
CC metastatic growth  
XX  
XX Sequence 18 BP; 2 A; 5 C; 9 G; 2 T; 0 U; 0 Other;  
SQ

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 552 GCCCTTCAGCCGCCGCC 568  
Db 17 GACCTTCAGCCGCCGCC 1

RESULT 1381  
AAZ56415  
ID AAZ56415 standard; DNA; 18 BP.  
XX  
XX AAZ56415;  
AC  
XX  
DT 17-MAR-2000 (first entry)  
XX  
XX Escherichia coli H7 specific fliC oligonucleotide primer #1696.  
DE  
XX  
XX Flagellin; fliC; antigen; detection; PCR primer; ss.  
KW  
XX  
XX Escherichia coli.  
OS  
XX  
XX WO9961458-A1.  
PN  
XX  
XX 02-DEC-1999.  
PD  
XX  
XX 21-MAY-1999; 99WO-AU000385.  
PF  
XX  
XX 21-MAY-1998; 98AU-00003634.  
PR  
XX  
XX (UNSY ) UNIV SYDNEY.  
PA  
XX  
XX Reeves PR, Wang L;  
PI  
XX  
XX WPI; 2000-072598/06.  
DR  
XX  
XX Novel nucleic acid molecule useful for the detection of flagellated  
PT bacterial strains in food, feces, etc.  
PT  
XX  
XX Disclosure; Page 43; 245pp; English.  
PS  
XX  
CC AAZ56331 to AAZ56398 represent nucleic acid molecules (I) encoding all or  
CC part of an Escherichia coli flagellin protein except a protein expressed  
CC by E. coli H1, H7, H12 or H48 type strains. The present invention also  
CC describes a method of detecting the presence of E. coli of a particular H  
CC serotype in a sample, comprising specifically hybridising a nucleic acid,  
CC preferably at least a pair, derived from a flagellating gene, specific  
CC for a particular flagellin gene associated with the H serotype, to any  
CC E. coli in the sample which contain the gene, and detecting any hybridised  
CC molecules, identifying the presence of that serotype in the sample. (I)  
CC are useful for: (1) detecting the presence of E. coli of H serotype in a  
CC sample by hybridising at least one or a pair of (I) to any E. coli in the  
CC sample and detecting the hybridised nucleic acid molecules; and (2) for  
CC detecting the presence of both O and H-serotypes of E. coli by  
CC hybridising at least one or a pair of (I) to any E. coli present in the  
CC sample and detecting the hybridised nucleic acid molecules. (I) is  
CC particularly useful for detecting the combination of O and H antigen.  
CC Hybridised (I) when using at least one (I) is detected by southern blot  
CC analysis and, when using a pair of (I), is detected by polymerase chain  
CC reaction (PCR). AAZ56399 to AAZ56420 represent primers used in the  
CC exemplification of the present invention  
XX  
XX Sequence 18 BP; 2 A; 7 C; 7 G; 2 T; 0 U; 0 Other;  
SQ



Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1566 GCCTGACTCAGCGGC 1582  
DB 2 GCCTGACTCAGCGGCC 18  
|||||

RESULT 1382  
AAC60641/c  
ID AAC60641 standard; DNA; 18 BP.  
XX  
AC AAC60641;  
XX  
DT 01-FEB-2001 (first entry)  
XX  
DE Human PDK-1 antisense oligonucleotide ISIS #29246.  
XX  
KW Human; PDK-1; 3-phosphoinositide dependent protein kinase-1;  
KW antisense oligonucleotide; phosphorothioate; antiinflammatory;  
KW cytostatic; antimicrobial; ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX  
PN US6124272-A.  
XX  
PD 26-SEP-2000.  
XX  
PF 09-APR-1999; 99US-00289466.  
XX  
PR 09-APR-1999; 99US-00289466.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Monia BP, Cowser LM;  
XX  
DR WPI; 2000-611015/58.

Novel antisense compounds useful for inhibiting the expression of human 3  
PT -phosphoinositide dependent protein kinase-1, useful e.g. for treating  
PT inflammation, tumors and infections.

PS Claim 3; Col 39; 41pp; English.  
XX  
CC The present sequence is one of a large number of antisense  
CC oligonucleotides which are targeted to a nucleic acid molecule encoding  
CC human 3-phosphoinositide dependent protein kinase-1 (PDK-1). The  
CC antisense compounds may be oligodeoxynucleotides or chimeric  
CC oligonucleotides containing a central gap region, consisting of ten 2'-  
CC deoxynucleotides, which is flanked on both sides by 2'-methoxyethyl (2'-  
CC MOE) wings. The oligonucleotides have a phosphorothioate backbone. The  
CC antisense oligonucleotides are useful for inhibiting the expression of  
CC human PDK-1 in human cells or tissues. They are also useful for  
CC preventing or delaying infection, inflammation or tumours and are useful  
CC for research and diagnostics  
XX

SQ Sequence 18 BP; 3 A; 5 C; 6 G; 4 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 812 TCCACACGAGAGTCC 828  
DB 17 TGCTCAGCGAGAGTCC 1  
|||||

RESULT 1383  
AAF56289/c  
ID AAF56289 standard; DNA; 18 BP.  
XX

AAF56289;  
XX  
DT 18-APR-2001 (first entry)  
XX  
DE Primer #4.  
XX  
KW Parthenocarp; plant; DefH9-iaaM; rolA; regulation; ss.  
XX  
OS Synthetic.  
XX  
PN WO200105985-A1.  
XX  
PD 25-JAN-2001.  
XX  
PF 13-JUL-2000; 2000WO-IT000290.  
XX  
PR 16-JUL-1999; 99IT-RM000451.  
XX  
PA (GINE-) GINESTRA SCARL.  
PA (SPER-) IST SPERIMENTALE ORTICOLTURA.  
PA (CNDR ) CONSIGLIO NAZ DELLE RICERCHE.  
XX

PI Spena A, Rotino G, Ficcacanti N, Defez R;  
XX  
DR WPI; 2001-147350/15.  
XX

PT Use of DNA fragment of specified length to modulate the expression of  
PT genes that induce the parthenocarpic trait in plants, by inserting the  
PT DNA fragment at the 5' end transcribed untranslated region of the gene.  
XX  
PS Disclosure; Page 11; 29pp; English.

XX  
CC The present invention relates to use of a DNA fragment comprising a  
CC sequence of 86 nucleotides fully defined in the specification, or its  
CC functional analogs, for regulating the expression of a gene that induces  
CC parthenocarp in a plant, by inserting the fragment at the 5' end  
CC transcribed untranslated region of the gene. The invention is useful for  
CC transgenic plant production which do not show any malformations caused by  
CC the use of gene DefH9-iaaM in some species and cultivars, and for  
CC regulating the gene that induces parthenocarp in a plant  
XX  
SQ Sequence 18 BP; 3 A; 10 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1592 GCGTGGTGACACCGAG 1608  
DB 17 GTGTGGTGACACCGAG 1  
|||||

RESULT 1384  
AAF56287/c  
ID AAF56287 standard; DNA; 18 BP.

XX  
AC AAF56287;  
XX  
DT 18-APR-2001 (first entry)  
XX  
DE Primer #2.  
XX  
KW Parthenocarp; plant; DefH9-iaaM; rolA; regulation; ss.  
XX  
OS Synthetic.  
XX  
PN WO200105985-A1.  
XX  
PD 25-JAN-2001.  
XX  
PF 13-JUL-2000; 2000WO-IT000290.  
XX  
PR 16-JUL-1999; 99IT-RM000451.

XX (GINE-) GINESTRA SCARL.  
PA (SPER-) IST SPERIMENTALE ORTICOLTURA.  
XX (CNDR ) CONSIGLIO NAZ DELLE RICERCHE.  
XX  
PI Spena A, Rotino G, Ficcadenti N, Defez R;  
XX  
XX WPI; 2001-147350/15.  
XX  
XX  
XX Use of DNA fragment of specified length to modulate the expression of  
PT genes that induce the parthenocarpic trait in plants, by inserting the  
PT DNA fragment at the 5' end transcribed untranslated region of the gene.  
XX  
PS Disclosure; Page 11; 29pp; English.  
XX  
XX The present invention relates to use of a DNA fragment comprising a  
CC sequence of 86 nucleotides fully defined in the specification, or its  
CC functional analogs, for regulating the expression of a gene that induces  
CC parthenocarp in a plant, by inserting the fragment at the 5' end  
CC transcribed untranslated region of the gene. The invention is useful for  
CC transgenic plant production which do not show any malformations caused by  
CC the use of gene Deth9-1aam in some species and cultivars, and for  
CC regulating the gene that induces parthenocarp in a plant  
XX  
SQ Sequence 18 BP; 3 A; 10 C; 2 G; 3 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Fred. No. 9.4e-02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0  
QY 1592 GCGTGTGGACACCGAG 1608  
Db | | | | | | | | | | | | | | | | | |  
17 GTGTGTGGACACCGAG 1  
RESULT 1385  
AAS09667  
ID AAS09667 standard; DNA; 18 BP.  
XX  
XX AAS09667;  
XX  
XX 24-OCT-2001 (first entry)  
XX  
XX Oat Beta-amyrin synthase PCR primer ASEQ2.  
XX  
XX Oat; PCR primer; Beta-amyrin synthase; triterpenoid; palatability;  
KW oxidosqualene cyclase; pathogen resistance; transgenic plant;  
KW fungal disease; ss.  
XX  
XX Avena strigosa.  
XX  
XX WO200146391-A2.  
XX  
XX 28-JUN-2001.  
XX  
XX 20-DEC-2000; 2000WO-GB004908.  
XX  
XX 22-DEC-1999; 99GB-00030394.  
XX  
XX 16-AUG-2000; 2000GB-00020217.  
XX  
XX (PLAN-) PLANT BIOSCIENCE LTD.  
XX  
XX Osbourn AE, Haralampidis K, Bryan GT;  
PI WPI; 2001-418055/44.  
XX  
XX  
XX Novel beta-amyrin synthase encoding nucleic acids useful for influencing  
PT or affecting triterpene synthesis, and hence resistance to fungal  
PT pathogen, taste, palatability or nutritional value of plants.  
XX  
XX Claim 11; Page 63; 69pp; English.  
XX  
XX The sequence represents a PCR primer used to isolate nucleic acids

CC	encoding Oat Beta-amylin synthase (an oxidosqualene cyclase). Beta-amyrin
CC	is a triterpenoid responsible for paltability to animals and resistance to
CC	pathogens and predators. The beta-amyrin synthase encoding nucleic acid
CC	is useful for producing a transgenic plant, by introducing a vector
CC	containing it into a host cell, optionally causing or allowing
CC	recombination between the vector and the host cell genome so as to
CC	transform the host cell, and regenerating a plant from the transformed
CC	plant cell. The DNA is also useful for identifying, cloning or
CC	determining the presence of a nucleic acid in a sample and for
CC	influencing or affecting the quantity or quality of triterpenoid
CC	synthesis, preferably an oleanane-type triterpene saponin synthesis, in a
CC	plant, such as altering resistance to a fungal pathogen e.g., an
CC	ascomycete having a sterol-containing membrane, optionally selected from
CC	Gaeumannomyces graminis vars tritici and avenae, Fusarium culmorum, F,
CC	avanaceum, Stagonospora nodorum or S. avenae, taste, palatability and/or
CC	nutritional value, of the plant, by causing or allowing expression of the
CC	DNA within the cells of the plant, following an earlier step of
CC	introducing the DNA into a cell or its ancestor. The DNA is also useful
CC	for reducing the level of triterpenoids in the plant, by causing or
CC	allowing transcription from an antisense molecule in the plant, allowing
CC	transcription from the DNA, or its part such as to reduce beta-amyrin
CC	synthase expression by co-suppression, use of a nucleic acid encoding a
CC	CC ribozyme specific for the DNA
XX	
SQ	Sequence 18 BP; 4 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
	Query Match            0.8%; Score 13.8; DB 1; Length 18;
	Best Local Similarity   88.2%; Pred. No. 9.4e+02;
	Matches   15; Conservative   0; Mismatches   2; Indels   0; Gaps   0;
Qy	1079   CCAATGAGGTGGTGACA 1095
Db	2   CCCATGAGGTGGTGACA 18
RESULT l386	
ID AAS95078	
AC AAS95078 standard; DNA; 18 BP.	
XX AC AAS95078;	
XX AC AAS95078;	
DT 13-FEB-2002 (first entry)	
XX Human otoferlin exon PCR primer #43.	
DE Human; mouse; otoferlin; OTOP; brain; auditory function; PCR primer;	
KW autosomal nonsyndromic prelingual deafness; DFNB9; ss.	
KW autosomal nonsyndromic prelingual deafness; DFNB9; ss.	
XX Homo sapiens.	
OS WO200170972-A2.	
FN 27-SEP-2001.	
PD 27-SEP-2001.	
XX 23-MAR-2001; 2001WO-IB000578.	
PF 24-MAR-2000; 2000US-0191738P.	
PR (INSP ) INST PASTEUR.	
XX (CNRS ) CNRS CENT NAT RECH SCI.	
PA Yasnaga S, Grati M, Cohen-Salmon M, El Amraoui A, Petit C;	
XX Weil D;	
FI WPI; 2001-611499/70.	
DR Novel human gene Otoferlin, underlying an autosomal recessive	
XX nonsyndromic prelingual deafness, DFNB9, and proteins encoded by the	
PT gene, implicated in deafness.	
XX Claim 25; Page 17; 99pp; English.	
XX The invention relates to a purified polynucleotide (I) encoding a protein	
CC	



CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention

XX SQ Sequence 18 BP; 2 A; 5 C; 5 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1036 TTGGCCTGGCCGAGC 1052  
 |||||  
 Db 1 TTGGCCTGGCCGAGC 17

RESULT 1389

ABA03355  
 ID ABA03355 standard; DNA; 18 BP.

XX AC ABA03355;

XX DT 12-FEB-2002 (first entry)

XX DE Human clone WA15\_l1 coding sequence probe.

XX KW Human; clone WA15\_l1; nutrition; cytokine; cell proliferation; probe;  
 KW immunomodulatory; cell differentiation; haematopoiesis; tissue growth;  
 KW chemotactic; chemokinetic; thrombolytic; antinflammatory; cancer;  
 KW cytotoxic; virucide; antibacterial; fungicide; haematological;  
 KW vulnary; contraceptive; antiinfertility; haemostatic;  
 KW tumour inhibition; ss.

XX OS Homo sapiens.

XX PN WO200175074-A1.

XX PD 11-OCT-2001.

XX PF 30-MAR-2001; 2001WO-US010246.

XX PR 31-MAR-2000; 2000US-0193769P.

XX PA (GEMY ) GENETICS INST INC.

XX PI Jacobs K, McCoy JM, Lavallie ER, Collins-Racie LA, Evans C;

XX PI Merberg D, Treacy M;

XX DR WPI; 2001-639364/73.

XX PT New human protein related to the ribonuclease HI large subunit, useful  
 PT for treating, e.g. cancer or inflammation.

XX PS Disclosure; Page 65; 67pp; English.

XX CC The present invention provides the protein and coding sequences of human  
 CC WA15\_l1. These sequences can be used in nutritional supplements, they may  
 CC have cytokine, cell differentiation, cell proliferation,  
 CC immunomodulatory, antinflammatory, haematopoiesis regulating, tissue  
 CC growth, chemotactic, chemokinetic, haemostatic, thrombolytic, tumour  
 CC suppression, and tumour inhibition activities, and they may also be used  
 CC in the treatment of infections, infertility, and cognitive and depressive  
 CC disorders. The present sequence is a probe used to isolate the coding  
 CC sequence of the invention

XX SQ Sequence 18 BP; 6 A; 3 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 627 GGACAAACTGGCGAGG 643  
 |||||  
 Db 2 GGACAACTGGGGGAG 18

RESULT 1390

AAI68749

ID AAI68749 standard; DNA; 18 BP.

XX AC AAI68749;

XX DT 21-JAN-2002 (first entry)

XX DE Human cystatin C derived primer 2.

XX KW Primer; cystatin C; post-operative insertion; bone tumor; vulnary;  
 KW transforming growth factor superfamily; osteopathic; gene therapy;  
 KW bone regeneration; cancer; ss.

XX OS Homo sapiens.

XX PN DE10020125-A1.

XX PD 25-OCT-2001.

XX PF 18-APR-2000; 2000DE-01020125.

XX PR 18-APR-2000; 2000DE-01020125.

XX PA (UYJE ) UNIV SCHILLER JENA.

XX PI Wiedersanders B, Maubach G;

XX DR WPI; 2002-018650/03.

XX PT Agent for stimulating bone regrowth, useful as insert after surgery for  
 PT bone cancer, comprises single sequence expressing a fusion of growth  
 PT factor and protease inhibitor.

XX PS Claim 8; Fig 3; 8pp; German.

XX CC This invention describes a novel agent (A) for post-operative insertion,  
 CC after removal of bone tumor, comprising a nucleic acid (NAI) encoding a  
 CC growth factor, especially of the transforming growth factor superfamily,  
 CC linked by an oligonucleotide (ON) to a sequence (NA2) encoding a protease  
 CC inhibitor (PI). The product of the invention has osteopathic and  
 CC vulnary activity and can be used for gene therapy. (A) are used to  
 CC promote regeneration of bone after surgical removal of primary or  
 CC metastatic bone cancers. (A) make it possible to use less extensive  
 CC surgery (removal of less bone), since it reduces the risk of new  
 CC metastases arising from the borders of the resected zone. It also  
 CC improves growth of bone into prostheses, resulting in shorter recovery  
 CC times and stronger incorporation of the prosthesis, and reduces the need  
 CC for further surgery. This sequence represents a PCR primer used in the  
 CC amplification of the cystatin C gene used to illustrate the method of the  
 CC invention

XX SQ Sequence 18 BP; 1 A; 3 C; 11 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 229 AGTGGTGGTGGTGGCGG 245  
 |||||  
 Db 1 AGCGGTGGCGGTGGCGG 17

RESULT 1391

ABK14145

ID ABK14145 standard; DNA; 18 BP.

XX AC ABK14145;

XX DT 08-MAY-2002 (first entry)

XX XX

DE Chlorinated ethylene-decomposing bacteria detection DNA KWI-De3.  
XX  
XX Chlorinated ethylene-decomposing bacteria; 16S rRNA; 16S rDNA; ss; probe;  
KW PCR; primer; soil; underground water; chlorinated ethylene; KWI-De3;  
KW chlorinated ethane; Dehalococcoides.  
XX  
OS Synthetic.  
XX  
XX EPI1176216-A2.  
PN  
XX  
XX 30-JAN-2002.  
PD  
XX  
XX 23-JUL-2001; 2001EP-00117844.  
PF  
XX  
XX 24-JUL-2000; 2000JP-00227580.  
PR  
XX 09-MAR-2001; 2001JP-00066001.  
PR  
XX (KURK ) KURIITA WATER IND LTD.  
PA  
XX  
XX Nakamura K, Ueno T;  
PI  
XX WPI; 2002-173127/23.  
DR  
XX  
XX New nucleic acid for detecting chlorinated ethylene-decomposing bacteria  
PT used to purify soil or underground water contaminated with chlorinated  
PT ethylene or ethane.  
XX  
XX Claim 1; Page 7; 22pp; English.  
XX  
XX The invention relates to a nucleic acid which hybridises to the 16S  
CC ribosomal (deoxy)ribonucleic acid of chlorinated ethylene-decomposing  
CC bacteria. The nucleic acid can be used as a labelled probe for detecting  
CC chlorinated ethylene-decomposing bacteria (e.g. Dehalococcoides)  
CC comprising the novel nucleic acid by DNA hybridisation using the labelled  
CC probe as an indicator. The bacteria can also be detected by performing  
CC PCR using the nucleic acid as a primer and the sample nucleic acid as a  
CC template, and detecting newly synthesised DNA. A method for decomposing  
CC chlorinated ethylene or ethane comprises detecting chlorinated ethylene-  
CC decomposing bacteria using underground water or soil as a sample, and  
CC introducing the water/soil containing the bacteria, to soil or  
CC underground water contaminated by chlorinated ethylene or ethane. The  
CC methods are therefore useful for purifying soil or underground water  
CC contaminated with chlorinated ethylene or ethane. This sequence  
CC represents a nucleic acid which hybridises to nucleic acid of chlorinated  
CC ethylene-decomposing bacteria  
XX  
SQ Sequence 18 BP; 5 A; 3 C; 7 G; 3 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
Qy 596 GCTTTGGGAACCTGGAG 612  
||||| ||||| ||  
Db 1 GCTTGGGGAACCTGAAG 17  
  
RESULT 1392  
ABS64463  
ID ABS64463 standard; DNA; 18 BP.  
XX  
AC ABS64463;  
XX  
DT 15-NOV-2002 (first entry)  
XX  
XX Human TGF-beta binding PCR primer SR1 #2.  
DE  
XX Human; NOVX; neurodegenerative disease; Alzheimer's disease; anxiety;  
KW Parkinson's disease; Huntington's disease; neurological disorder;  
KW schizophrenia; manic depression; mental retardation; angina pectoris;  
KW cardiovascular disease; acute heart failure; myocardial infarction;  
KW muscular disease; muscular disorder; retinal disease; photoreception;  
KW deafness; keratinisation disorder; cancer; ovarian cancer; melanoma;

immunological disorder; inflammatory disease; immune disease; diabetes;  
KW bacterial infection; fungal infection; protozoal infection; obesity;  
KW viral infection; reproductive system disorder; metabolic disturbance;  
KW anorexia; wasting disorder; chronic disease; infectious disease;  
KW dyslipidaemia; TGF-beta binding; cloning; PCR; primer; ss.  
XX  
OS Homo sapiens.  
XX  
XX WO200264791-A2.  
PN  
XX  
XX 22-AUG-2002.  
PD  
XX  
XX 10-DEC-2001; 2001WO-US048369.  
PF  
XX  
XX 08-DEC-2000; 2000US-0254329P.  
PR  
XX 14-DEC-2000; 2000US-0255648P.  
PR  
XX 15-MAY-2001; 2001US-0291037P.  
PR  
XX 08-JUN-2001; 2001US-0297173P.  
PR  
XX 08-JUN-2001; 2001US-0309258P.  
PR  
XX 29-AUG-2001; 2001US-0315639P.  
PR  
XX 01-OCT-2001; 2001US-0326393P.  
PR  
XX  
XX (CURA-) CURAGEN CORP.  
PA  
XX  
XX Alsobrook JP, Anderson DW, Burgess CE, Boldog FL, Casman SJ;  
PI Colman SD, Edinger SR, Ellerman K, Gerlach V, Gorman L, Grosse WM;  
PI Guo X, Herrmann JL, Kekuda R, Lepley DM, Li L, Macdougall JR;  
PI Millet I, Pena CEA, Peyman JA, Rastelli L, Rieger DK, Shinkets RA;  
PI Smithson G, Spytek KA, Stone DJ, Tchernev VT, Vernet CAM, Voss EG;  
PI Zerhusen BD, Zhong H, Zhong M;  
PI  
XX WPI; 2002-643486/69.  
DR  
XX  
XX New NOVX polypeptides and polynucleotides useful for treating or  
PT preventing e.g. neurodegenerative diseases, neurological disorders,  
PT cardiovascular diseases, muscular diseases and disorders, or  
PT immunological diseases.  
XX  
XX Example 3; Page 288; 299pp; English.  
XX  
XX The present invention relates to new NOVX polypeptides. The polypeptides,  
CC polynucleotides and antibodies are useful in the manufacture of a  
CC medicament for treating or preventing neurodegenerative diseases (e.g.  
CC Alzheimer's disease, Parkinson's disease, or Huntington's disease),  
CC neurological disorders (e.g. anxiety, schizophrenia, manic depression or  
CC mental retardation), cardiovascular disease (e.g. acute heart failure,  
CC angina pectoris or myocardial infarction), muscular diseases and  
CC disorders, retinal diseases (including those involving photoreception,  
CC deafness and keratinisation disorders), cancer (e.g. ovarian cancer or  
CC melanoma), immunological disorders, inflammatory and immune diseases,  
CC bacterial, fungal, protozoal and viral infections, and reproductive  
CC system disorders. The proteins of the invention may be used to screen  
CC drugs or compounds that modulate the NOVX protein activity or expression,  
CC as well as to treat disorders characterised by insufficient or excessive  
CC production of NOVX protein or protein forms that have decreased or  
CC aberrant activity compared to NOVX wild type protein, such as diabetes,  
CC obesity, metabolic disturbances associated with obesity, anorexia and  
CC wasting disorders associated with chronic diseases and various cancers,  
CC infectious diseases and various dyslipidaemias. The nucleic acid  
CC sequences of the invention may be used in chromosome mapping, identifying  
CC an individual from minute biological samples (tissue typing), and in  
CC forensic identification of a biological sample. The present nucleic acid  
CC sequence represents a cloning PCR primer that was used in the methods of  
CC the invention for amplification of the NOVX TGF-beta binding gene  
XX  
SQ Sequence 18 BP; 1 A; 10 C; 3 G; 4 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 18;  
Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
Qy 555 CCTCAGCGCGCGCTCC 571  
||||| ||||| ||||| |||||

```

Db      1 CCTCAGCGTCCGCTCC 17

RESULT 1393
ACD66643/c
ID      ACD66643 standard; DNA; 18 BP.
XX
XX      ACD66643;
XX
XX      16-SEP-2003 (first entry)
XX
XX      Human Inhibitor-kappa B kinase-beta antisense oligonucleotide #12.
DE
XX      Human; inhibitor-kappa B kinase-beta; anorectic; antidiabetic;
KW      antiinflammatory; cytostatic; gene therapy; antisense compound; obesity;
KW      diabetes type II; inflammatory disorder; cancer; leukaemia;
KW      antisense oligonucleotide; ss.
XX
XX      Homo sapiens.
OS
XX      US2003050270-A1.
PN
XX
XX      13-MAR-2003.
PD
XX
XX      24-MAY-2002; 2002US-00156610.
PF
XX
XX      20-NOV-1998; 98US-00197008.
PR
XX      28-JUL-1999; 99WO-US016959.
PR      30-AUG-2001; 2001US-00856246.
XX
XX      (MONI/) MONIA B P.
PA      (COMS/) COMSERT L M.
PA      (KOLL/) KOLLER E.
XX
XX      Monia BP, Cowsert LM, Koller E;
PI
XX      WPI; 2003-512357/48.
DR
XX
XX      New antisense compound, useful for preparing a composition for treating
PT      obesity, diabetes type II, inflammatory disorder or cancer e.g.,
PT      leukemia.
XX
XX      Claim 3; Page 22; 49pp; English.
PS
XX
XX      The invention describes a new antisense compound, which is 8-30
CC      nucleobases in length targeted to a nucleic acid molecule encoding
CC      inhibitor-kappa B kinase-beta that specifically hybridises with and
CC      inhibits the expression of inhibitor-kappa B kinase-beta. The compound is
CC      useful for preparing a composition for treating obesity, diabetes type
CC      II, inflammatory disorder or cancer e.g., leukaemia. This sequence
CC      represents an antisense oligonucleotide used to inhibit the expression
CC      of inhibitor-kappa B kinase-beta
XX
XX      Sequence 18 BP; 5 A; 5 C; 6 G; 2 T; 0 U; 0 Other;
SQ

      Query Match      0.8%; Score 13.8; DB 1; Length 18;
      Best Local Similarity 88.2%; Pred. No. 9.4e+02;
      Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      831 CACCCCTTGCTTTGAGT 847
      ||||| |||||
Db      17 CACCCCTGGCCTTTGAGT 1

RESULT 1394
ADE14990
ID      ADE14990 standard; DNA; 18 BP.
XX
XX      ADE14990;
AC
XX
XX      29-JAN-2004 (first entry)
DT
XX
XX      Beer spoilage-associated primer SEQ ID 185.
DE

ss; primer; detection; beer-spoilage; lactic acid bacteria;
Gram-negative bacteria; spoilage bacteria.
Lactobacillus buchneri.
WO2002103043-A2.
27-DEC-2002.
19-JUN-2002; 2002WO-EP006808.
19-JUN-2001; 2001DE-01029410.
(VERM-) VERMICON AG.
Beimfohr C, Snaldr J;
WPI; 2003-175243/17.
New oligonucleotides, useful for rapid detection of beer-spoilage
bacteria by in situ hybridization, are specific for type, genus or
species.
Claim 1; SEQ ID NO 185; 88pp; German.
This invention describes novel oligonucleotides used in a method for
detecting beer-spoilage bacteria in a sample. The bacteria detected
include lactic acid bacteria of the genera Lactobacillus or Pediococcus,
especially the species L. coryniformis, L. perolens, L. buchneri, L.
plantarum, L. fructivorans, L. lindneri, L. casei, L. brevis or P.
damosus or Gram-negative bacteria of the genera Pectinatus and M.
Megaasphaera, specifically P. frisingensis, P. cerevisiophilus and M.
cerevisiae. The oligonucleotides of the invention provide rapid detection
of spoilage bacteria (typically within 48 hours, compared with 7-12 days
for conventional culture methods), can detect all relevant bacteria in
parallel, can differentiate between species of the same genus, and are
easy to use. ADE14806-ADE15247 represent the oligonucleotides used in the
method of the invention.
Sequence 18 BP; 1 A; 4 C; 11 G; 2 T; 0 U; 0 Other;
SQ

      Query Match      0.8%; Score 13.8; DB 1; Length 18;
      Best Local Similarity 88.2%; Pred. No. 9.4e+02;
      Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      229 AGTGGTGGTGGTGGCGG 245
      ||||| |||||
Db      2 AGCGGTGGCGGTGGCGG 18

RESULT 1395
ADE13509/c
ID      ADE13509 standard; DNA; 18 BP.
XX
XX      ADE13509;
AC
XX
XX      29-JAN-2004 (first entry)
DT
XX
XX      HLA class I allele specific primer #125.
DE
XX      ss; primer; PCR; human; Human Leukocyte Antigen; HLA; genotype.
XX      Homo sapiens.
OS
XX      US2003165884-A1.
PN
XX      04-SEP-2003.
PD
XX      25-APR-2002; 2002US-00133779.
PF
XX      20-DEC-1999; 99US-0172768P.
PR      20-DEC-2000; 2000US-00747391.
PR

```

XX (STEM-) STEMCYTE INC.  
 XX Chow R, Tonai R;  
 XX WPI; 2003-874916/81.  
 XX Identifying class I or II Human Leukocyte Antigen genotypes using  
 PT hybridization and amplification assays.  
 XX Claim 7; SEQ ID NO 127; 66pp; English.  
 XX The invention relates to a method of identifying a class I or II Human  
 CC Leukocyte Antigen (HLA) genotype of a subject using hybridisation and  
 CC amplification assay. The method is used for determining the HLA genotype  
 CC of a subject. The present sequence represents a HLA class I allele  
 CC specific primer.  
 XX Sequence 18 BP; 3 A; 6 C; 5 G; 4 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 503 CTGAGGGCTACTGGAG 519  
 Db 18 CTGAAGCTACTGGAG 2  
 RESULT 1396  
 ADF13492  
 ID ADF13492 standard; DNA; 18 BP.  
 XX ADF13492;  
 AC ADF13492;  
 DT 12-FEB-2004 (first entry)  
 DE Apolipoprotein E (epsilon-4 allele), BaySNP 10948, PCR primer #2.  
 DB Cardiant; antiarteriosclerotic; vasotropic; cerebroprotective;  
 XX hypotensive; gene therapy; human; apolipoprotein E; PCR; primer; ss.  
 OS Homo sapiens.  
 XX WO2003072813-A2.  
 PN 04-SEP-2003.  
 PD 14-FEB-2003; 2003WO-EP001514.  
 PF 27-FEB-2002; 2002EP-00004258.  
 PR (FARB ) BAYER AG.  
 XX Stropp U, Schwes S, Kallabis H;  
 PI WPI; 2003-712738/67.  
 XX New isolated polynucleotide encoded by a phenotype-associated gene,  
 PT useful for prognosticating statin therapy response, and diagnosing or  
 PT treating cardiovascular diseases, such as hypertension, myocardial  
 PT infarction and stroke.  
 XX Example 1; Page 70; 182pp; English.  
 PS The present invention relates to human phenotype-associated (PA) genes (I  
 CC ; ADF13307-ADP13386) which contain a Single Nucleotide Polymorphism  
 CC (SNP). The SNP is given in the sequence as a variant nucleotide. Also  
 CC claimed are methods for screening for agents which regulate the activity  
 CC of a PA gene and reagents that modulate the activity of a PA polypeptide  
 CC or a polynucleotide where the reagent is identified by the screening  
 CC methods. The methods and compositions of the present invention are useful  
 CC for prognosticating, diagnosing and treating cardiovascular diseases,

CC such as atherosclerosis, hypertension, restenosis, arterial inflammation,  
 CC myocardial infarction and stroke. The present sequence is a PCR primer,  
 CC used in the examples from the invention.  
 XX Sequence 18 BP; 6 A; 1 C; 10 G; 1 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 31 CAGAGGTAGGACGAGG 47  
 Db 1 CAGAGGGAGGAGGAGG 17  
 RESULT 1397  
 ADM92704  
 ID ADM92704 standard; DNA; 18 BP.  
 XX ADM92704;  
 AC ADM92704;  
 XX 03-JUN-2004 (first entry)  
 DT SNP-containing cardiovascular associated gene primer #34.  
 DE SNP; single nucleotide polymorphism; cardiovascular associated gene;  
 KW allelic variation; atherosclerosis; ischemia; reperfusion; hypertension;  
 KW restenosis; arterial inflammation; myocardial infarction; stroke; primer;  
 KW ss.  
 XX Homo sapiens.  
 OS WO2003057911-A2.  
 PN 17-JUL-2003.  
 PD 07-JAN-2003; 2003WO-EP000060.  
 PF 08-JAN-2002; 2002EP-00000153.  
 PR (FARB ) BAYER AG.  
 XX Stropp U, Schwes S, Kallabis H;  
 PI WPI; 2003-577532/54.  
 XX New isolated polynucleotides comprising single nucleotide polymorphisms  
 PT of the cardiovascular gene, useful for assessing predisposition or  
 PT susceptibility to a cardiovascular disease, e.g. atherosclerosis,  
 PT restenosis or stroke.  
 XX Disclosure; Page 67; 187pp; English.  
 PS The invention relates an isolated polynucleotide (I) encoded by a  
 CC cardiovascular associated (CA) gene, having allelic variation contained  
 CC in a functional surrounding like full length cDNA for CA gene  
 CC polypeptide, and with or without the CA gene promoter sequence. (I) is a  
 CC polynucleotide comprising single nucleotide polymorphisms predicting  
 CC cardiovascular disease. The polynucleotides are useful for assessing  
 CC predisposition or susceptibility to a cardiovascular disease, e.g.  
 CC atherosclerosis, ischemia/reperfusion, hypertension, restenosis, arterial  
 CC inflammation, myocardial infarction, and stroke. These may also be used  
 CC to predict personal medication schemes omitting adverse drug reactions,  
 CC or as probes for detecting genetic polymorphisms and as templates for the  
 CC recombinant production of normal or variant peptides/polypeptides encoded  
 CC by the genes. This sequence corresponds to a PCR primer to amplify one of  
 CC the genes of the invention.  
 XX Sequence 18 BP; 6 A; 1 C; 10 G; 1 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 18;  
 Best Local Similarity 88.2%; Pred. No. 9.4e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY      31 CAGAGGTAGGCAGGAGG 47
Db      1 CAGAGGGAGGAGGAGG 17

RESULT 1399
ADL09359/C
ID ADL09359 standard; DNA; 18 BP.
XX
XX AC
XX ADL09359;
XX
XX 06-MAY-2004 (first entry)
XX
XX HLA locus-specific capture oligonucleotide #125.
XX ss; primer; human leukocyte antigen; HLA; HLA genotyping; human; PCR.
XX
XX Homo sapiens.
XX
XX US6670124-B1.
XX
XX 30-DEC-2003.
XX
XX 20-DEC-2000; 2000US-00747391.
XX
XX 20-DEC-1999; 99US-0172768P.
XX
XX (STEM-) STEMCYTE INC.
XX
XX Chow R, Tonai R;
XX
XX WPI; 2004-068584/07.
XX
XX Identifying an HLA genotype of a subject by hybridizing the amplification
XX products with an HLA locus-specific capture oligonucleotide and detecting
XX the detectable complexes to identify the HLA genotype of the subject.
XX
XX Example 1; SEQ ID NO 127; 68pp; English.
XX
XX The invention describes a method of identifying a human leukocyte antigen
XX (HLA) genotype of a subject comprising: obtaining a sample comprising a
XX template nucleic acid from the subject; amplifying the template nucleic
XX acid with HLA allele-specific forward primers and HLA allele-specific
XX reverse primers to form amplification products; hybridising the
XX amplification products with an HLA locus-specific capture oligonucleotide
XX ; and detecting the detectable complexes to identify the HLA genotype of
XX the subject. The present sequence represents one of 276 HLA locus-
XX specific capture oligonucleotides of the invention.
XX
XX Sequence 18 BP; 3 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 9.4e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      503 CTGAGGGCTACTGGAG 519
Db      18 CTGAAGCCTACTGGAG 2

RESULT 1399
AD058582/C
ID AD058582 standard; DNA; 18 BP.
XX
XX AC
XX AD058582;
XX
XX 12-AUG-2004 (first entry)
XX
XX Rubellimicrobium rRNA oligonucleotide probe SEQ ID NO:27.
XX
XX ss; probe; paper; board; in situ hybridisation; anti-biofilm;
XX agglomerate; biofilm; thermophilic microorganism.

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XX Unidentified.
XX OS
XX WO2004042082-AL.
XX
XX 21-MAY-2004.
XX
XX 06-NOV-2003; 2003WO-FI000839.
XX
XX 06-NOV-2002; 2002FI-00001986.
XX
XX 06-NOV-2002; 2002FI-00001987.
XX
XX (KEMH ) KEMIRA OYJ.
XX
XX Jurgens G, Kolari M, Rainey F, Salkinoja-Salonen M, Laatikainen H;
XX Tammeila P, Vuorela P, Vaeetaenen P;
XX
XX WPI; 2004-419709/39.
XX
XX Monitoring harmful microorganisms in paper and board industry. Involves
XX detecting presence of harmful target microorganisms by in situ
XX hybridization using oligonucleotide probe hybridizable to nucleic acid of
XX target microorganism.
XX
XX Claim 12; SEQ ID NO 27; 32pp; English.
XX
XX The invention relates to a novel method for monitoring harmful
XX microorganisms in the paper and board industry comprising detecting the
XX presence or absence of the harmful target microorganism by in situ
XX hybridization using an oligonucleotide probe hybridisable with a region
XX of a nucleic acid of the target microorganism. The method is useful for
XX determining the need of an anti-biofilm agent in the paper or board
XX making process, and for inhibiting the formation of agglomerates and/or
XX biofilm, and/or removing the agglomerates and/or biofilm which are formed
XX by thermophilic microorganisms, from the surfaces of paper and board
XX making machines. The method also enables an efficient and timesaving
XX process for monitoring the microbiological state of a paper or board
XX making process, and for the recognition of the microorganism before
XX process failures emerge. The present sequence represents an
XX oligonucleotide probe targeted to a region or rRNA of a target
XX microorganism of the invention.
XX
XX Sequence 18 BP; 3 A; 9 C; 3 G; 3 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 9.4e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      596 GCTTTGGGAACTGGAG 612
Db      18 GCCTTGGGAACTGGGG 2

RESULT 1400
AAT11974/C
ID AAT11974 standard; DNA; 19 BP.
XX
XX AAT11974;
XX
XX 25-MAR-2003 (revised)
XX
XX 13-MAR-1996 (first entry)
XX
XX CMV antisense oligonucleotide (ISIS 5478).
XX
XX antisense; cytomegalovirus; CMV; human; therapy; prophylaxis; diagnosis;
XX intermediate early complex; IE1; IE2; DNA polymerase gene; ss.
XX
XX Synthetic.
XX
XX Key      Location/Qualifiers
XX modified_base 1..19
XX /*tag= a
XX /note= "phosphorothioate backbone"
XX
XX FT
XX FT

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XX PN US5442049-A.
XX XX
XX PD 15-AUG-1995.
XX PF 25-JAN-1993; 93US-00009263.
XX PR 19-NOV-1992; 92US-00927506.
XX PA (ISIS-) ISIS PHARM INC.
XX PT Baker B, Draper K, Anderson K;
XX PI WPI; 1995-292538/38.
XX PS
XX CC AAT11971-84 are antisense oligonucleotides (ONs) against human
XX CC cytomegalovirus (CMV) that displayed activities of at least 50 % of
XX CC control (ISIS 2922 shown in AAT11961). It was found that up to 4 internal
XX CC mismatches could be tolerated without loss of antiviral activity.
XX CC Antisense ONs targeting CMV DNA or RNA coding for the IE1, IE2 or DNA
XX CC polymerase proteins have been shown to be effective in therapy.
XX CC prophylaxis and diagnosis of CMV infection. The ONs may be modified to
XX CC reduce nucleic acid resistance and to increase their efficacy. Modifications
XX CC include phosphorothioate backbones, alkyl and halogen-substituted sugar
XX CC moieties at the 2' position. (Updated on 25-MAR-2003 to correct PF
XX CC field.)
XX SQ Sequence 19 BP; 0 A; 5 C; 4 G; 10 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 133 ATGAAGAAGATCAACG 149
Db 18 AAGAAGAAGAGCAACG 2
RESULT 1401
AAT01676/C
ID AAT01676 standard; DNA; 19 BP.
XX AC AAT01676;
XX DT 17-DEC-1995 (first entry)
XX DE Peptide nucleic acid targeting CMV IE2 nuc sig 2.
XX KW peptide nucleic acid; PNA; cytomegalovirus; CMV; papillomavirus;
XX KW antiviral; diagnostic; ss.
XX OS Synthetic.
XX FH Key Location/Qualifiers
XX FT misc_feature 1..19
XX FT /tag= a
XX FT /note= "at least one (and preferably all) of the backbone
FT subunits are composed of amide units, so that the
FT oligomer consists of the nucleobases attached covalently
FT to a polyamide backbone"
XX PN WO9504748-A1.
XX XX
XX PD 16-FEB-1995.
XX XX
XX PF 09-AUG-1994; 94WO-US009039.
XX XX

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PR 09-AUG-1993; 93US-00104438.
XX XX
XX PA (ISIS-) ISIS PHARM INC.
XX PI Anderson KP, Crooke ST, Mirabelli CK, Ecker DJ, Cowsett LM;
XX XX
XX DR WPI; 1995-090841/12.
XX XX
XX PT New peptide nucleic acid oligomers hybridisable to cytomegalovirus or
XX PT papillomavirus - are stable anti:sense molecules with high affinity for
XX PT single stranded DNA, used for treating infections.
XX PS Claim 2; Page 44; 65pp; English.
XX XX
XX CC New oligomers are claimed which (A) have at least one peptide nucleic
XX CC acid (PNA) subunit and (B) have a sequence hybridisable to AUG region, 5'
XX CC untranslated region, intron/exon (I/E) junction or coding sequence of
XX CC cytomegalovirus gene selected from DNA polymerase, IE1 and IE2, or
XX CC hybridisable to the E, E2, E4, E5, E6, E7, L1 or L2 reading frames of a
XX CC papillomavirus. The PNAs can be used to target RNA and single stranded
XX CC DNA (ssDNA) to produce antisense-type gene regulation moieties. Hence
XX CC they may be used therapeutically for modulating cytomegalovirus and
XX CC papillomavirus processes and also as diagnostics (e.g., as probes for
XX CC specific mRNAs). PNA oligomers have high affinity for complementary
XX CC single stranded DNA. They are also able to form triple helices in which a
XX CC first PNA strand binds with RNA or ssDNA and a second PNA strand binds
XX CC with the resulting double helix or with the first PNA strand. The PNAs
XX CC possess no significant charge and are water soluble, which facilitates
XX CC cellular uptake. Further, since they contain amides of non-biological
XX CC amino acids, they are biostable and resistant to enzymatic degradation by
XX CC proteases. The present sequence targets CMV IE2 nuclear localisation
XX CC signal 2
XX SQ Sequence 19 BP; 0 A; 5 C; 4 G; 10 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 133 ATGAAGAAGATCAACG 149
Db 18 AAGAAGAAGAGCAACG 2
RESULT 1402
AAT67044/C
ID AAT67044 standard; DNA; 19 BP.
XX AC AAT67044;
XX DT 04-AUG-1997 (first entry)
XX DE PCR primer DP17 for org gene probe preparation.
XX KW Salmonella typhimurium; org gene; polymerase chain reaction; PCR; primer;
XX KW oxygen-regulated gene; ss.
XX OS Synthetic.
XX PN WO9718225-A1.
XX PD 22-MAY-1997.
XX PF 14-NOV-1996; 96WO-US018504.
XX XX
XX PR 14-NOV-1995; 95US-0006733P.
XX XX
XX PA (GEHO ) GEN HOSPITAL CORP.
XX XX
XX PI Miller SI;
XX DR WPI; 1997-289217/26.
XX XX

```

PT New isolated Salmonella secreted proteins and related genes - used to  
 PT develop products for the detection, treatment or prevention of Salmonella  
 PT infections.

XX Example 1; Page 29; 95pp; English.

XX PCR primers DPI5 (AAATG7043) and DPI7 (AAATG7044) were used to amplify a  
 CC 724-bp org gene probe. The probe can be used to identify the Salmonella  
 CC typhimurium oxygen-regulated gene (org)

XX Sequence 19 BP; 2 A; 7 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1272 GGAGACGTGGCCAGGCA 1288  
 DB 18 GGAGAACTGCCAGGCA 2

RESULT 1403

AAAX10245  
 ID AAX10245 standard; DNA; 19 BP.

XX AC AAX10245;

XX DT 24-MAR-1999 (first entry)

XX DE Human biallelic polymorphic marker downstream primer #551.

XX Polymorphism; biallelic; human; forensic; paternity testing; disease;  
 KW detection; phenotypic typing; characteristic; infection; hereditary;  
 KW autoimmune disease; cancer; inflammation; drug; therapy; medicament;  
 KW treatment; marker; primer; ss.

XX OS Synthetic.

XX OS Homo sapiens.

XX PN WO9820165-A2.

XX PD 14-MAY-1998.

XX PF 05-NOV-1997; 97WO-US020313.

XX PR 06-NOV-1996; 96US-0030455P.

XX PA (WHED ) WHITEHEAD INST BIOMEDICAL RES.

XX PI Lander ES, Wang D, Hudson T;

XX WPI; 1998-286974/25.

XX New isolated nucleic acid segments from the human genome - used for  
 PT determining polymorphic forms for use in e.g. forensics, paternity  
 PT testing or phenotypic typing for disease.

XX Claim 16; Page 219; 310pp; English.

XX AAX09121-X10268 are allele-specific oligonucleotide primers used in the  
 CC isolation of various biallelic polymorphic markers found in the human  
 CC genome (represented in AAX10269-X12937). These primers can be used in a  
 CC method for determining polymorphic forms in an individual for use in e.g.  
 CC forensics, paternity testing or for phenotypic typing for diseases such  
 CC as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular  
 CC dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial  
 CC hypercholesterolemia, polycystic kidney disease, hereditary  
 CC spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary  
 CC haemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos  
 CC syndrome, osteogenesis imperfecta, acute intermittent porphyria,  
 CC autoimmune diseases, inflammation, cancer, diseases of the nervous  
 CC system, infection by pathogenic microorganisms, and characteristics such  
 CC as longevity, appearance (e.g. baldness, obesity), strength, speed,

CC endurance, fertility, and susceptibility or receptivity to particular  
 CC drugs or therapeutic treatments. The isolated polymorphic nucleic acid  
 CC segments can also be used to produce medicaments for the treatment or  
 CC prophylaxis of such diseases

XX Sequence 19 BP; 8 A; 6 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1297 AACGAGGAGTTCAGAC 1313  
 DB 1 AACGAGGAGTCAAGAC 17

RESULT 1404

AAV01575

ID AAV01575 standard; DNA; 19 BP.

XX AC AAV01575;

XX DT 01-JUN-1998 (first entry)

XX DE H. capsulatum rRNA ITS1 primer 1724F.

XX Internal transcribed spacer; ITS; ribosomal RNA; 18S; 5.8S; ss; primer;  
 KW PCR; amplification; probe; hybridisation; detection; histoplasmosis.

XX OS Synthetic.

XX OS Ajellomyces capsulatus.

XX PN US5693501-A.

XX PD 02-DEC-1997.

XX PF 08-MAR-1995; 95US-00400580.

XX PR 08-MAR-1995; 95US-00400580.

XX PA (INDV ) UNIV INDIANA ADVANCED RES & TECHNOLOGY.

XX PI Jiang B, Lee C;

XX WPI; 1998-031751/03.

XX PT Histoplasma capsulatum DNA sequences - useful as primers for diagnosing  
 PT histoplasmosis.

XX PS Example 1; Col 5; 10pp; English.

XX Primers AAV01575-V01576 were used to amplify the internal transcribed  
 CC spacer 1 (ITS1) sequence from the Histoplasma capsulatum large subunit  
 CC ribosomal gene (AAV01567). The ITS1 sequence corresponds to the region  
 CC between the 3' end of the 18S ribosomal gene and the 5' end of the 5.8S  
 CC ribosomal gene. The ITS1 sequence was PCR amplified from isolated DNA  
 CC from both the yeast and mycelial forms of H. capsulatum. Fragments of the  
 CC sequence (e.g. AAV01568-V01574) can be used as primers and probes for H.  
 CC capsulatum infection (histoplasmosis) in a patient

XX Sequence 19 BP; 5 A; 4 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 622 AAGCTGGACAAACTGGG 638  
 DB 1 AAGCTGGTCAAACTTGG 17

RESULT 1405

AAAX17891/c

ID AAX17891 standard; DNA; 19 BP.  
 XX  
 AC AAX17891;  
 XX  
 DT 11-MAY-1999 (first entry)  
 XX  
 DE Anti-CMV oligonucleotide #5478.  
 XX  
 KW Antisense; oligonucleotide; immediate early; DNA polymerase; CMV;  
 KW cytomegalovirus; inhibition; replication; sugar modification;  
 KW phosphorothioate; infection; retinitis; ss.  
 XX  
 OS Synthetic.  
 OS Human herpesvirus 5.  
 XX  
 FN WO9845314-A1.  
 XX  
 PD 15-OCT-1998.  
 XX  
 PF 07-APR-1998; 98WO-US006895.  
 XX  
 PR 09-APR-1997; 97US-00838715.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Draper KG, Kisner DL, Anderson KP, Chapman S;  
 XX  
 DR WPI; 1998-568330/48.  
 XX  
 CC New antisense oligonucleotides that target cytomegalovirus nucleic acid -  
 CC particularly including 2-methoxyethoxy sugar modifications, especially  
 CC for treating viral retinitis, with long-lasting retention in the retina.  
 PT  
 PT  
 XX  
 PS Claim 7; Page 30; 99pp; English.  
 XX  
 CC Antisense oligonucleotides (AAX17861-X17924) are targeted to a nucleic  
 CC acid (AAX17925-X17948) encoding IE (immediate early) 1 or 2, or DNA  
 CC polymerase of cytomegalovirus (CMV) and are able to inhibit CMV  
 CC replication. Optionally the oligonucleotides include at least one 2'-(2-  
 CC methoxyethoxy) sugar modification or phosphorothioate internucleotide  
 CC linkages. The oligonucleotides are used to inhibit CMV infections (by in  
 CC vivo or in vitro contact with cells, tissues or body fluids), especially  
 CC to treat or prevent CMV infections, particularly retinitis  
 XX  
 SQ Sequence 19 BP; 0 A; 5 C; 4 G; 10 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 133 ATGAGAGAGATCAACG 149  
 DB | ||||| |||||  
 18 AAGAAGAGAGCAACG 2  
 RESULT 1406  
 AAX04627/C  
 ID AAX04627 standard; DNA; 19 BP.  
 XX  
 AC AAX04627;  
 XX  
 DT 12-APR-1999 (first entry)  
 XX  
 DE PCR primer Taa4R used to amplify alpha-tubulin.  
 XX  
 KW Gibberellin 4; GA4; beta-hydroxylase; GA4 homologue; GA4H; GA4H1; GA4H2;  
 KW plant growth hormone; seed germination; stem elongation; flowering;  
 KW fruiting; stem growth; alpha-tubulin; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS WO9859057-A1.  
 PN  
 XX

PD 30-DEC-1998.  
 XX  
 PF 24-JUN-1998; 98WO-US013044.  
 XX  
 PR 24-JUN-1997; 97US-0050615P.  
 XX  
 PA (GEHO) GEN HOSPITAL CORP.  
 PA (GOOD/) GOODMAN H M.  
 PA (NGUY/) NGUYEN L V.  
 PA (CHIA/) CHIANG H.  
 XX  
 PI Goodman HM, Nguyen LV, Chiang H;  
 XX  
 DR WPI; 1999-105626/09.  
 XX  
 PT New isolated Gibberellin 4 homologues - derived from Arabidopsis plants,  
 PT used to develop products for altering stem growth, e.g. for enhancing  
 PT stem elongation, flowering and fruiting.  
 XX  
 PS Example 5; Page 33; 106pp; English.  
 XX  
 CC PCR primers AAX04626-27 were used to amplify the alpha-tubulin 4 gene.  
 CC The primers are used as an internal control when determining expression  
 CC of the GA4H1 gene. GA4H1 is a gibberellin 4 (GA4) homologue. The GA4H  
 CC proteins (GA4H1 and GA4H2) have similar functions to GA4. GA4H is  
 CC believed to be a member of the enzyme family involved in the biosynthesis  
 CC of the gibberellin family of plant growth hormones that promote various  
 CC growth and developmental processes in higher plants, such as seed  
 CC germination, stem elongation, flowering and fruiting. GA4 is a beta-  
 CC hydroxylase, and the homologues may also have 3-beta-hydroxylase  
 CC activity, which is critical for controlling stem growth. GA4H may be  
 CC applied to crops to enhance and facilitate stem elongation, flowering and  
 CC fruiting. Alternatively, the DNA encoding GA4H may be genetically  
 CC inserted into the plant host to produce a similar effect  
 XX  
 SQ Sequence 19 BP; 3 A; 6 C; 2 G; 8 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1517 TAAAGGAGATTCAGCTA 1533  
 DB ||||| ||||| |||||  
 17 TAAAGAGATCGAGCTA 1  
 RESULT 1407  
 AAZ36588/C  
 ID AAZ36588 standard; DNA; 19 BP.  
 XX  
 AC AAZ36588;  
 XX  
 DT 22-FEB-2000 (first entry)  
 XX  
 DE Probe hybridising to nucleotides of human c-erb-B-2 (HER-2).  
 XX  
 KW Human; c-erb-B-2; HER-2; chromosome aberration; probe;  
 KW peptide nucleic acid; haemopoietic malignancy; cancer;  
 KW inborn constitutiel disease; herbicide resistance gene; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 FN WO9957309-A1.  
 XX  
 PD 11-NOV-1999.  
 XX  
 PF 04-MAY-1999; 99WO-DK000245.  
 XX  
 PR 04-MAY-1998; 98DK-00000615.  
 XX  
 PA (DAKO-) DAKO AS.  
 XX

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PI Pluzek K, Nielsen KV, Adelhorst K;
XX WPI; 2000-038821/03.
DR
XX
XX Detection of chromosome aberrations, used for detecting diseases and
PT disorders, infections, and plant alterations related to e.g. herbicide
PT resistance.
XX
XX Example 1; Page 44; 63pp; English.
PS
XX
CC Oligonucleotides AAZ36562-97 represent a set of probes hybridising to the
CC human c-erb-B-2 (HER-2) gene. The probes are used to demonstrate the
CC method of the invention. The specification describes a method for the
CC detection of chromosome aberrations in eukaryotic samples uses sets of
CC peptide nucleic acid (PNA) probes in hybridisation reactions. The method
CC comprises using at least 2 sets of hybridisation probes, where at least
CC one set comprises one or more PNA probes capable of hybridising to
CC specific nucleic acid sequences related to a potential aberration in a
CC chromosome. The methods can be used for the detection of chromosome
CC aberrations. They can be used for the diagnosis of disorders and diseases
CC related to chromosomal aberrations or abnormalities such as e.g.
CC haematopoietic malignancies, cancers and inborn constitutional diseases. The
CC method may be used for detecting viral sequences and their localization
CC in the chromosome. In plant biology, the methods can be used for
CC monitoring the efficiency of transferring herbicide resistance genes to a
CC plant
XX
XX Sequence 19 BP; 3 A; 5 C; 5 G; 6 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 654 CACCGTCTACAAAGGCA 670
DB 18 CACAGTCTACAAAGGCA 2
RESULT 1408
AA82434
ID AAA82434 standard; DNA; 19 BP.
XX
XX AAA82434;
AC
XX 04-DEC-2000 (first entry)
DT
XX cdk1 ribozyme binding site #20.
DE
XX Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX Mammalia.
XX WO200032765-A2.
XX 08-JUN-2000.
XX 06-DEC-1999; 99WO-US028772.
XX 04-DEC-1998; 98US-0110954P.
XX (IMMU-) IMMUSOL INC.
XX Tritz R, Welch PJ, Barber JR, Robbins JM;
XX WPI; 2000-412314/35.
XX
XX New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,
PT PCNA and Cyclin B1.
XX
XX Disclosure; Page 46; 109pp; English.
XX
XX The present invention relates to a hairpin or hammerhead ribozyme,
XX designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
XX other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
XX Representative examples of ribozyme recognition sites are given in
XX AAA82415 to AAA86787. The ribozyme of the invention is useful for
XX inhibiting restenosis by introduction of the ribozyme into cells. The
XX ribozyme is resistant to endonuclease activity and hence is efficient in
XX restenosis treatment
XX
XX Sequence 19 BP; 6 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 973 CACCGAGACTCAAGCC 989
DB 1 CACCGAGATCTGAGCC 17
RESULT 1409
AA82874
ID AAA82874 standard; DNA; 19 BP.
XX
XX AAA82874;
AC
XX 04-DEC-2000 (first entry)
DT
XX cdk4 ribozyme binding site #55.
DE
XX Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX Mammalia.
XX WO200032765-A2.
XX 08-JUN-2000.
XX 06-DEC-1999; 99WO-US028772.
XX 04-DEC-1998; 98US-0110954P.
XX (IMMU-) IMMUSOL INC.
XX Tritz R, Welch PJ, Barber JR, Robbins JM;
XX WPI; 2000-412314/35.
XX
XX New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,
PT PCNA and Cyclin B1.
XX
XX Disclosure; Page 53; 109pp; English.
XX
XX The present invention relates to a hairpin or hammerhead ribozyme,
XX designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
XX other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
XX Representative examples of ribozyme recognition sites are given in
XX AAA82415 to AAA86787. The ribozyme of the invention is useful for
XX inhibiting restenosis by introduction of the ribozyme into cells. The
XX ribozyme is resistant to endonuclease activity and hence is efficient in
XX restenosis treatment
XX
XX Sequence 19 BP; 6 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 973 CACCGAGACTCAAGCC 989
DB 1 CACCGAGATCTGAGCC 17

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```
RESULT 1410
AAA82729
ID AAA82729 standard; DNA; 19 BP.
XX
XX AC AAA82729;
XX
XX DT 04-DEC-2000 (first entry)
XX
XX DE cdk3 ribozyme binding site #14.
XX
XX KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX
XX OS Mammalia.
XX
XX PN WO200032765-A2.
XX
XX PD 08-JUN-2000.
XX
XX PF 06-DEC-1999; 99WO-US028772.
XX
XX PR 04-DEC-1998; 98US-0110954P.
XX
XX PA (IMMU-) IMMUSOL INC.
XX
XX PI Tritz R, Welch PJ, Barber JR, Robbins JM;
XX
XX DR WPI; 2000-412314/35.
XX
XX CC The present invention relates to a hairpin or hammerhead ribozyme,
CC designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
CC other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
CC Representative examples of ribozyme recognition sites are given in
CC AAA82415 to AAA86787. The ribozyme of the invention is useful for
CC inhibiting restenosis by introduction of the ribozyme into cells. The
CC ribozyme is resistant to endonuclease activity and hence is efficient in
CC restenosis treatment
XX
XX SQ Sequence 19 BP; 4 A; 6 C; 5 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 19;
XX Best Local Similarity 88.2%; Pred. No. 9.8e+02;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 760 TCCCTGCTCAAGGACCT 776
XX |||||
XX 2 TCGCTGCTCAAGGAAGT 18
XX
XX DB
XX
XX RESULT 1411
AAA84423
ID AAA84423 standard; DNA; 19 BP.
XX
XX AC AAA84423;
XX
XX DT 04-DEC-2000 (first entry)
XX
XX DE Cyclin D3 ribozyme binding site #35.
XX
XX KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX
XX OS Mammalia.
XX
XX PN WO200032765-A2.
XX
XX PD 08-JUN-2000.
XX
XX PF 06-DEC-1999; 99WO-US028772.
XX
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XX
XX PR 04-DEC-1998; 98US-0110954P.
XX
XX PA (IMMU-) IMMUSOL INC.
XX
XX PI Tritz R, Welch PJ, Barber JR, Robbins JM;
XX
XX DR WPI; 2000-412314/35.
XX
XX CC New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
XX RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,
XX PCNA and Cyclin B1.
XX
XX PS Disclosure; Page 76; 109pp; English.
XX
XX CC The present invention relates to a hairpin or hammerhead ribozyme,
XX designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
XX other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
XX Representative examples of ribozyme recognition sites are given in
XX AAA82415 to AAA86787. The ribozyme of the invention is useful for
XX inhibiting restenosis by introduction of the ribozyme into cells. The
XX ribozyme is resistant to endonuclease activity and hence is efficient in
XX restenosis treatment
XX
XX SQ Sequence 19 BP; 3 A; 3 C; 9 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 19;
XX Best Local Similarity 88.2%; Pred. No. 9.8e+02;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 272 GTGCTGCTCTGGGGAA 288
XX |||||
XX 2 GTGCTGCTCTAGGGAA 18
XX
XX DB
XX
XX RESULT 1412
AAA82887
ID AAA82887 standard; DNA; 19 BP.
XX
XX AC AAA82887;
XX
XX DT 04-DEC-2000 (first entry)
XX
XX DE cdk4 ribozyme binding site #68.
XX
XX KW Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.
XX
XX OS Mammalia.
XX
XX PN WO200032765-A2.
XX
XX PD 08-JUN-2000.
XX
XX PF 06-DEC-1999; 99WO-US028772.
XX
XX PR 04-DEC-1998; 98US-0110954P.
XX
XX PA (IMMU-) IMMUSOL INC.
XX
XX PI Tritz R, Welch PJ, Barber JR, Robbins JM;
XX
XX DR WPI; 2000-412314/35.
XX
XX CC New hairpin and hammerhead ribozyme for inhibiting restenosis, cleaves
XX RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,
XX PCNA and Cyclin B1.
XX
XX PS Disclosure; Page 53; 109pp; English.
XX
XX CC The present invention relates to a hairpin or hammerhead ribozyme,
XX designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase
XX other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.
XX Representative examples of ribozyme recognition sites are given in
XX
```

CC AAA82415 to AAA86787. The ribozyme of the invention is useful for  
CC inhibiting restenosis by introduction of the ribozyme into cells. The  
CC ribozyme is resistant to endonuclease activity and hence is efficient in  
CC restenosis treatment

XX  
SQ Sequence 19 BP; 4 A; 5 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;

Best Local Similarity 88.2%; Pred. No. 9.8e+02; Mismatches 2; Indels 0; Gaps 0;

Matches 15; Conservative 0;

QY 1090 GTGACACTGTGGTACCG 1106

|||||

Db 2 GTTACACTCTGGTACCG 18

RESULT 1413

AAA83020

ID AAA83020 standard; DNA; 19 BP.

XX

AC AAA83020;

XX 04-DEC-2000 (first entry)

XX cdk6 ribozyme binding site #80.

DE Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.

XX Mammalia.

XX WO200032765-A2.

XX 08-JUN-2000.

XX 06-DEC-1999; 99WO-US028772.

XX 04-DEC-1998; 98US-0110954P.

XX (IMMU-) IMMUSOL INC.

XX Tritz R, Welch PJ, Barber JR, Robbins JM;

XX WPI; 2000-412314/35.

XX New hairpin and hammerhead ribozyme for inhibiting restenosis. cleaves

PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,

PT PCNA and Cyclin B1.

XX Disclosure; Page 55; 109pp; English.

XX The present invention relates to a hairpin or hammerhead ribozyme,

XX designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase

XX other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.

XX Representative examples of ribozyme recognition sites are given in

XX AAA82415 to AAA86787. The ribozyme of the invention is useful for

XX inhibiting restenosis by introduction of the ribozyme into cells. The

XX ribozyme is resistant to endonuclease activity and hence is efficient in

XX restenosis treatment

XX Sequence 19 BP; 3 A; 3 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;

Best Local Similarity 88.2%; Pred. No. 9.8e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1159 TGGGGTGTGGGTGCAT 1175

|||||

Db 2 TGGAGTGTGGGTGCAT 18

RESULT 1414

AAA82748

ID AAA82748 standard; DNA; 19 BP.

XX

AC AAA82748;

XX 04-DEC-2000 (first entry)

XX cdk3 ribozyme binding site #33.

XX Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.

XX Mammalia.

XX WO200032765-A2.

XX 08-JUN-2000.

XX 06-DEC-1999; 99WO-US028772.

XX 04-DEC-1998; 98US-0110954P.

XX (IMMU-) IMMUSOL INC.

XX Tritz R, Welch PJ, Barber JR, Robbins JM;

XX WPI; 2000-412314/35.

XX New hairpin and hammerhead ribozyme for inhibiting restenosis. cleaves

PT RNA encoding a cyclin or cell-cycle dependent kinase other than CDK1,

PT PCNA and Cyclin B1.

XX Disclosure; Page 51; 109pp; English.

XX The present invention relates to a hairpin or hammerhead ribozyme,

XX designed to cleave RNA encoding a cyclin or cell-cycle dependent kinase

XX other than cell-cycle dependent kinases CDK1, PCNA and Cyclin B1.

XX Representative examples of ribozyme recognition sites are given in

XX AAA82415 to AAA86787. The ribozyme of the invention is useful for

XX inhibiting restenosis by introduction of the ribozyme into cells. The

XX ribozyme is resistant to endonuclease activity and hence is efficient in

XX restenosis treatment

XX Sequence 19 BP; 2 A; 8 C; 3 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;

Best Local Similarity 88.2%; Pred. No. 9.8e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 919 TTCCTGTTCCAGTGCT 935

|||||

Db 3 TACCTCTCCAGTGCT 19

RESULT 1415

AAA82639

ID AAA82639 standard; DNA; 19 BP.

XX

AC AAA82639;

XX 04-DEC-2000 (first entry)

XX cdk2 ribozyme binding site #76.

XX Ribozyme; hairpin; hammerhead; gene therapy; vasotropic; restenosis; ss.

XX Mammalia.

XX WO200032765-A2.

XX 08-JUN-2000.

XX 06-DEC-1999; 99WO-US028772.

XX 04-DEC-1998; 98US-0110954P.

XX



```
XX DT 04-MAY-2001 (first entry)
XX DE Human multi drug resistance-1 gene related sequence SEQ ID NO: 291.
XX KW Human; MDR-1; multi drug resistance-1; drug uptake; disease; cancer;
XX KW inflammatory disease; neuronal disease; CNS disease;
XX KW cardiovascular disease; PCR primer; ss.
XX OS Homo sapiens.
XX PN WO200109183-A2.
XX PD 08-FEB-2001.
XX PF 28-JUL-2000; 2000WO-BP007314.
XX PR 30-JUL-1999; 99BP-00114938.
XX PR 22-FEB-2000; 2000BP-00103361.
XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX PI Brinkmann U, Hoffmeyer S, Eichelbaum M, Roots I;
XX DR WPI; 2001-159855/16.
XX XX New polynucleotide encoding a molecular variant Multi Drug Resistance
PT (MDR)-1 polypeptide is useful for diagnosing and treating diseases
PT associated with abnormal MDR-1 expression or function, e.g. cancer.
PT Disclosure; Page 137; 154pp; English.
XX PS The present invention provides nucleotides encoding molecular variants of
CC the human multi drug resistance-1 (MDR-1) protein. These can be used to
CC identify compounds capable of treating multidrug resistance and
CC sensitivity interfering resulting from polymorphisms in MDR-1, which can
CC lead to difficulties in treating cancer, cardiovascular, neuronal,
CC inflammatory and CNS diseases
XX SQ Sequence 19 BP; 6 A; 5 C; 4 G; 3 T; 0 U; 1 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 9.8e+02;
Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 388 TCCTCGATGAGTGCAGT 406
DB 19 TCCTCTGAGTATGTCAGT 1
RESULT 1419
AAH58036
ID AAH58036 standard; DNA; 19 BP.
AC AAH58036;
XX 10-SEP-2001 (first entry)
XX Cell-cycle dependent kinase cdk4 ribozyme binding site SEQ ID NO:460.
XX DE Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
KW recognition site; target; ribozyme binding site; eye disease; vulneryary;
KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;
KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;
KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;
KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;
KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;
KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;
KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
KW sickle cell retinopathy; ss.
XX OS Homo sapiens.
OS Synthetic.
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XX PN WO200130362-A2.
XX PD 03-MAY-2001.
XX PF 26-OCT-2000; 2000WO-US029500.
XX PR 26-OCT-1999; 99US-0161532P.
XX PA (IMMU-) IMMUSOL INC.
XX PI Robbins JM, Tritz R;
XX DR WPI; 2001-300427/31.
XX XX Treating proliferative skin or eye diseases and scarring, using ribozymes
PT that cleave RNA encoding cytokines involved in inflammation, matrix
PT metalloproteinases, growth factors and cell-cycle dependent kinases.
XX PS Example 1; Page 105; 408pp; English.
XX CC The present invention describes a method for treating a proliferative
CC skin or eye disease and scarring. The method involves administering a
CC ribozyme (I) which cleaves RNA encoding a cytokine involved in
CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle
CC dependent kinase, growth factor or a reductase, or administering a
CC nucleic acid molecule (II) comprising a promoter operably linked to a
CC nucleic acid segment encoding (I). (I) can have antipsoriatic,
CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisickling,
CC ophthalmological, vulneryary, keratolytic and virucide activities, and
CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used
CC in gene therapy. (I) and (II) are useful for treating proliferative skin
CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,
CC squamous or basal cell carcinoma and viral or seborrheic wart. They can
CC also be used for treating proliferative eye diseases such as diabetic
CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of
CC prematurity and retinal detachment, and for treating and preventing
CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn
CC scar. AAH57577 to AAH62099 represent sequences used in the
CC exemplification of the present invention
XX SQ Sequence 19 BP; 6 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 973 CACCGAGACCTCAAGCC 989
DB 1 CACCGAGATCTGAGCC 17
RESULT 1420
AAH59585
ID AAH59585 standard; DNA; 19 BP.
AC AAH59585;
XX 10-SEP-2001 (first entry)
XX Cyclin D3 ribozyme binding site SEQ ID NO:2009.
XX DE Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;
KW recognition site; target; ribozyme binding site; eye disease; vulneryary;
KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;
KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;
KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;
KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;
KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;
KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;
KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;
KW sickle cell retinopathy; ss.
XX OS Homo sapiens.
OS Synthetic.
```



OS Homo sapiens.  
 OS Synthetic.  
 FN WO200130362-A2.  
 XX  
 PD 03-MAY-2001.  
 XX  
 PF 26-OCT-2000; 2000WO-US029500.  
 XX  
 PR 26-OCT-1999; 99US-0161532P.  
 XX  
 PA (IMMU-) IMMUSOL INC.  
 XX  
 PI Robbins JM, Tritz R;  
 XX  
 DR WPI; 2001-300427/31.  
 XX  
 PT Treating proliferative skin or eye diseases and scarring, using ribozymes  
 PT that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
 XX  
 PS Example 1; Page 218; 408pp; English.  
 XX  
 CC The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisklicking,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX  
 SQ Sequence 19 BP; 3 A; 3 C; 9 G; 4 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 272 GTGCTGCTCCTGGGAA 288  
 ||||| ||||| |||||  
 Db 2 GTGCTGCTCCTAGGAA 18  
 ||||| ||||| |||||  
 RESULT 1421  
 AAH57801  
 ID AAH57801 standard; DNA; 19 BP.  
 XX  
 AC AAH57801;  
 XX  
 DT 10-SEP-2001 (first entry)  
 XX  
 DE Cell-cycle dependent kinase cdk2 ribozyme binding site SEQ ID NO:225.  
 XX  
 KW Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
 KW recognition site; target; ribozyme binding site; eye disease; vulnary;  
 KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
 KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
 KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
 KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
 KW antisklicking; ophthalmological; keratolytic; gene therapy; viral wart;  
 KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;

KW sickle cell retinopathy; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FN WO200130362-A2.  
 XX  
 PD 03-MAY-2001.  
 XX  
 PF 26-OCT-2000; 2000WO-US029500.  
 XX  
 PR 26-OCT-1999; 99US-0161532P.  
 XX  
 PA (IMMU-) IMMUSOL INC.  
 XX  
 PI Robbins JM, Tritz R;  
 XX  
 DR WPI; 2001-300427/31.  
 XX  
 PT Treating proliferative skin or eye diseases and scarring, using ribozymes  
 PT that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
 XX  
 PS Example 1; Page 88; 408pp; English.  
 XX  
 CC The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisklicking,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX  
 SQ Sequence 19 BP; 6 A; 5 C; 3 G; 5 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1022 TCAGCTGGCTGACTTT 1038  
 ||||| ||||| |||||  
 Db 3 TCAGCTAGCAGACTTT 19  
 ||||| ||||| |||||  
 RESULT 1422  
 AAH58182  
 ID AAH58182 standard; DNA; 19 BP.  
 XX  
 AC AAH58182;  
 XX  
 DT 10-SEP-2001 (first entry)  
 XX  
 DE Cell-cycle dependent kinase cdk6 ribozyme binding site SEQ ID NO:606.  
 XX  
 KW Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
 KW recognition site; target; ribozyme binding site; eye disease; vulnary;  
 KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
 KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
 KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
 KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
 KW antisklicking; ophthalmological; keratolytic; gene therapy; viral wart;

KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seboreic wart; vitreoretinopathy; scar;  
 KW sickle cell retinopathy; ss.

OS Homo sapiens.  
 OS Synthetic.

PN WO200130362-A2.

XX 03-MAY-2001.

PD 26-OCT-2000; 2000WO-US029500.

XX 26-OCT-1999; 99US-0161532P.

XX (IMMU-) IMMUSOL INC.

XX Robbins JM, Tritz R;

XX WPI; 2001-300427/31.

XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
 PT that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.

XX Example 1; Page 116; 408pp; English.

XX The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antiscaling,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention

XX Sequence 19 BP; 3 A; 3 C; 7 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1159 TGGGGTGTGGGTGCAT 1175

Db 2 TGGAGTGTGGGTGCAT 18

RESULT 1423

AAH57891

ID AAH57891 standard; DNA; 19 BP.

XX AAH57891;

XX 10-SEP-2001 (first entry)

DE Cell-cycle dependent kinase cdk3 ribozyme binding site SEQ ID NO:315.

XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;

KW recognition site; target; ribozyme binding site; eye disease; vulnary;

KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;

KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;

KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;

KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
 KW antiscaling; ophthalmological; keratolytic; gene therapy; viral wart;  
 KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
 KW sickle cell retinopathy; ss.

XX Homo sapiens.

OS Synthetic.

XX WO200130362-A2.

XX 03-MAY-2001.

XX 26-OCT-2000; 2000WO-US029500.

XX 26-OCT-1999; 99US-0161532P.

XX (IMMU-) IMMUSOL INC.

XX Robbins JM, Tritz R;

XX WPI; 2001-300427/31.

XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
 PT that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.

XX Example 1; Page 94; 408pp; English.

XX The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytostatic, antiseborrheic, antidiabetic, antiscaling,  
 CC ophthalmological, vulnary, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention

XX Sequence 19 BP; 4 A; 6 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 760 TCCCTGCTCAAGGACCT 776

Db 2 TCGCTGCTCAAGGACT 18

RESULT 1424

AAH57910

ID AAH57910 standard; DNA; 19 BP.

XX AAH57910;

XX 10-SEP-2001 (first entry)

DE Cell-cycle dependent kinase cdk3 ribozyme binding site SEQ ID NO:334.

XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;

KW recognition site; target; ribozyme binding site; eye disease; vulnary;

KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;

KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
KW antisklicking; ophthalmological; keratolytic; gene therapy; viral wart;  
KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
KW sickle cell retinopathy; ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX WO200130362-A2.  
XX 03-MAY-2001.  
XX  
PF 26-OCT-2000; 2000WO-US029500.  
XX  
PR 26-OCT-1999; 99US-0161532P.  
XX  
PA (IMMU-) IMMUSOL INC.  
XX Robbins JM, Tritz R;  
XX WPI; 2001-300427/31.  
XX  
DR Treating proliferative skin or eye diseases and scarring, using ribozymes  
PT that cleave RNA encoding cytokines involved in inflammation, matrix  
PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
XX  
PS Example 1; Page 96; 408pp; English.  
XX  
CC The present invention describes a method for treating a proliferative  
CC skin or eye disease and scarring. The method involves administering a  
CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
CC dependent kinase, growth factor or a reductase, or administering a  
CC nucleic acid molecule (II) comprising a promoter operably linked to a  
CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisklicking,  
CC ophthalmological, vulnary, keratolytic and virucide activities, and  
CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
CC also be used for treating proliferative eye diseases such as diabetic  
CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
CC prematurity and retinal detachment, and for treating and preventing  
CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
CC scar. AAH57577 to AAH62099 represent sequences used in the  
XX exemplification of the present invention  
XX  
SQ Sequence 19 BP; 2 A; 8 C; 3 G; 6 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 919 TTCCTGTTCCAGCTGCT 935  
| ||| |||||  
Db 3 TACCTCTTCCAGCTGCT 19  
RESULT 1425  
AAH58049  
ID AAH58049 standard; DNA; 19 BP.  
XX  
AC AAH58049;  
XX  
XX 10-SEP-2001 (first entry)  
DT  
XX Cell-cycle dependent kinase cdk4 ribozyme binding site SEQ ID NO:473.  
DE  
XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
KW

KW recognition site; target; ribozyme binding site; eye disease; vulnary;  
KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
KW matrix metalloproteinase; growth factor; reductase; scarring; cytostatic;  
KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
KW antisklicking; ophthalmological; keratolytic; gene therapy; viral wart;  
KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
KW sickle cell retinopathy; ss.  
XX  
OS Homo sapiens.  
OS Synthetic.  
XX WO200130362-A2.  
XX 03-MAY-2001.  
XX  
PF 26-OCT-2000; 2000WO-US029500.  
XX  
PR 26-OCT-1999; 99US-0161532P.  
XX  
PA (IMMU-) IMMUSOL INC.  
XX Robbins JM, Tritz R;  
XX WPI; 2001-300427/31.  
XX  
DR Treating proliferative skin or eye diseases and scarring, using ribozymes  
PT that cleave RNA encoding cytokines involved in inflammation, matrix  
PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
XX  
PS Example 1; Page 106; 408pp; English.  
XX  
CC The present invention describes a method for treating a proliferative  
CC skin or eye disease and scarring. The method involves administering a  
CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
CC dependent kinase, growth factor or a reductase, or administering a  
CC nucleic acid molecule (II) comprising a promoter operably linked to a  
CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
CC dermatological, cytostatic, antiseborrheic, antidiabetic, antisklicking,  
CC ophthalmological, vulnary, keratolytic and virucide activities, and  
CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
CC also be used for treating proliferative eye diseases such as diabetic  
CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
CC prematurity and retinal detachment, and for treating and preventing  
CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
CC scar. AAH57577 to AAH62099 represent sequences used in the  
XX exemplification of the present invention  
XX  
SQ Sequence 19 BP; 4 A; 5 C; 4 G; 6 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1090 GTGACACTGTGCTACCG 1106  
| ||||| |||||  
Db 2 GTTACACTGTGCTACCG 18  
RESULT 1426  
AAH57596  
ID AAH57596 standard; DNA; 19 BP.  
XX  
AC AAH57596;  
XX  
XX 10-SEP-2001 (first entry)  
DT  
XX Cell-cycle dependent kinase cdk1 ribozyme binding site SEQ ID NO:20.  
DE

XX Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
 KW recognition site; target; ribozyme binding site; eye disease; vulnery;  
 KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
 KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
 KW matrix metalloproteinase; growth factor; reductase; scarring; cytosolic;  
 KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
 KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;  
 KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
 KW sickle cell retinopathy; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX WO200103062-A2.  
 XX 03-MAY-2001.  
 XX 26-OCT-2000; 2000WO-US029500.  
 XX 26-OCT-1999; 99US-0161532P.  
 XX (IMMU-) IMMUSOL INC.  
 XX Robbins JM, Tritz R;  
 XX WPI; 2001-300427/31.  
 XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
 PT that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
 XX Example 1; Page 73; 408pp; English.  
 XX The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytosolic, antiseborrheic, antidiabetic, antisickling,  
 CC ophthalmological, vulnery, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX Sequence 19 BP; 7 A; 6 C; 3 G; 3 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1138 TACTCCACTCAGATTGA 1154  
 |||||  
 Db 1 TACTCCACTCAGAAAGA 17  
 RESULT 1427  
 AAH57911  
 ID AAH57911 standard; DNA; 19 BP.  
 XX AAH57911;  
 AC AAH57911;  
 XX 10-SEP-2001 (first entry)  
 DT

XX Cell-cycle dependent kinase cdk3 ribozyme binding site SEQ ID NO:335.  
 DE Human; ribozyme therapy; hairpin ribozyme; hammerhead ribozyme;  
 XX recognition site; target; ribozyme binding site; eye disease; vulnery;  
 KW proliferative disease; skin disease; psoriasis; diabetic retinopathy;  
 KW cytokine; inflammation; cell-cycle dependent kinase; cyclin; MMP;  
 KW matrix metalloproteinase; growth factor; reductase; scarring; cytosolic;  
 KW antipsoriatic; dermatological; antiseborrheic; antidiabetic; virucide;  
 KW antisickling; ophthalmological; keratolytic; gene therapy; viral wart;  
 KW atopic dermatitis; actinic keratosis; squamous cell carcinoma;  
 KW basal cell carcinoma; seborrheic wart; vitreoretinopathy; scar;  
 KW sickle cell retinopathy; ss.  
 XX Homo sapiens.  
 OS Synthetic.  
 XX WO200103062-A2.  
 XX 03-MAY-2001.  
 XX 26-OCT-2000; 2000WO-US029500.  
 XX 26-OCT-1999; 99US-0161532P.  
 XX (IMMU-) IMMUSOL INC.  
 XX Robbins JM, Tritz R;  
 XX WPI; 2001-300427/31.  
 XX Treating proliferative skin or eye diseases and scarring, using ribozymes  
 PT that cleave RNA encoding cytokines involved in inflammation, matrix  
 PT metalloproteinases, growth factors and cell-cycle dependent kinases.  
 XX Example 1; Page 96; 408pp; English.  
 XX The present invention describes a method for treating a proliferative  
 CC skin or eye disease and scarring. The method involves administering a  
 CC ribozyme (I) which cleaves RNA encoding a cytokine involved in  
 CC inflammation, matrix metalloproteinase (MMP), cyclin, cell-cycle  
 CC dependent kinase, growth factor or a reductase, or administering a  
 CC nucleic acid molecule (II) comprising a promoter operably linked to a  
 CC nucleic acid segment encoding (I). (I) can have antipsoriatic,  
 CC dermatological, cytosolic, antiseborrheic, antidiabetic, antisickling,  
 CC ophthalmological, vulnery, keratolytic and virucide activities, and  
 CC cleaves RNA encoding cytokine involved in inflammation. (I) can be used  
 CC in gene therapy. (I) and (II) are useful for treating proliferative skin  
 CC diseases such as psoriasis, atopic dermatitis, actinic keratosis,  
 CC squamous or basal cell carcinoma and viral or seborrheic wart. They can  
 CC also be used for treating proliferative eye diseases such as diabetic  
 CC retinopathy, vitreoretinopathy, sickle cell retinopathy, retinopathy of  
 CC prematurity and retinal detachment, and for treating and preventing  
 CC scarring such as keloid, adhesion and hypertrophic or hypertrophic burn  
 CC scar. AAH57577 to AAH62099 represent sequences used in the  
 CC exemplification of the present invention  
 XX Sequence 19 BP; 2 A; 8 C; 3 G; 6 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 919 TTCTCTTCCAGCTGCT 935  
 |||||  
 Db 2 TACTCTTCCAGCTGCT 18  
 RESULT 1428  
 ABS67829/C  
 ID ABS67829 standard; DNA; 19 BP.  
 XX ABS67829;  
 AC ABS67829;

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XX 29-NOV-2002 (first entry)
XX Human casein kinase 2-alpha prime DNA, PCR primer #2.
XX Human; casein kinase 2-alpha prime; diabetes mellitus;
XX hyperproliferative disorder; breast cancer; prostate cancer;
XX liver cancer; infection; inflammation; tumour formation; cytostatic;
XX antidiabetic; antiinflammatory; antimicrobial; PCR; primer; ss.
XX Homo sapiens.
XX WO200262951-A2.
XX 15-AUG-2002.
XX 01-FEB-2002; 2002WO-US002772.
XX 08-FEB-2001; 2001US-00780173.
XX (ISIS-) ISIS PHARM INC.
XX McKay R, Freier SM, Wyatt JR;
XX WPI; 2002-627539/67.
XX New antisense oligonucleotides targeted to nucleic acid encoding casein
XX kinase 2-alpha prime, useful for diagnosing and/or treating a disease or
XX condition associated with expression of casein kinase 2-alpha prime.
XX Example 13; Page 91; 129pp; English.
XX The present invention relates to antisense oligonucleotides and methods
XX for modulating the expression of human or mouse casein kinase 2-alpha
XX prime. The antisense oligonucleotides are useful for inhibiting the
XX expression of casein kinase 2-alpha prime, and for treating diseases or
XX conditions associated with aberrant expression of casein kinase 2-alpha
XX prime. Such diseases include diabetes mellitus, and hyperproliferative
XX disorders (particularly cancers e.g. breast cancer, prostate cancer, or
XX liver cancer). The antisense compounds are also useful for diagnostics,
XX therapeutics, prophylaxis, e.g. to prevent or delay infection,
XX inflammation or tumour formation, as research reagents and kits, and in
XX distinguishing between functions of various members of a biological
XX pathway. The present sequence represents a PCR primer used to amplify DNA
XX encoding human casein kinase 2-alpha prime in the examples of the present
XX invention
XX Sequence 19 BP; 1 A; 8 C; 3 G; 7 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1364 GACTTGATAGCGCGG 1380
Db 17 GACTGGAAGCGCGGG 1
RESULT 1429
AAK98357/c
ID AAK98357 standard; DNA; 19 BP.
XX AAK98357;
XX AAK98357;
XX 08-MAY-2002 (first entry)
XX Chinese hamster HMG-I(Y) PCR primer.
XX Chinese hamster; expression augmenting sequence element; EASE; HMG-I(Y);
XX recombinant protein expression; mammalian host cell; PCR; primer; ss;
XX high mobility group; nonhistone chromatin protein;
XX architectural transcription factor.
XX
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OS Cricetulus griseus.
XX US6309841-B1.
XX 30-OCT-2001.
XX 12-SEP-2000; 2000US-00660299.
XX 11-JAN-1996; 96US-00586509.
XX 13-JAN-1997; 97US-00785150.
XX 05-NOV-1999; 99US-00435377.
XX (IMMV) IMMUNEX CORP.
XX Morris AE, Thomas JN;
XX WPI; 2002-033281/04.
XX New expression augmenting sequence elements isolated from a Chinese
XX hamster ovary cell line improve expression of recombinant proteins in
XX host mammalian cells.
XX Example 16; Col 22; 25pp; English.
XX The invention comprises Chinese hamster expression augmenting sequence
XX elements (EASEs; AAK98343-AAK98344) that can be used to improve
XX expression of recombinant proteins in mammalian host cells. The EASE
XX sequences of the invention contain numerous binding sites for members of
XX the HMG-I(Y) ("high mobility group") family of nonhistone chromatin
XX proteins, a group of minor groove-binding architectural transcription
XX factors which are thought to be involved in the mechanisms by which EASE
XX sequences improve expression of transgenes. The EASEs of the invention
XX can also be used in the identification of additional EASE sequences (e.g.
XX from other transformed cell lines which exhibit high levels of expression
XX not attributable to a high gene copy number). Expression of recombinant
XX therapeutic proteins in mammalian cells is often preferable to expression
XX in microbial (prokaryotic) cells, since the post-translational
XX modifications found in mammalian cells are more likely to resemble those
XX found in a mammal. The present sequence represents a Chinese hamster high
XX mobility group nonhistone chromatin protein-I(Y) (HMG-I(Y)) PCR primer,
XX used in an example of the invention to clone the Chinese hamster HMG-I(Y)
XX gene
XX Sequence 19 BP; 2 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 390 CTCGGATGAGCTGCAGT 406
Db 19 CTCGAGGAGGAGCAGT 3
RESULT 1430
ABL43700
ID ABL43700 standard; DNA; 19 BP.
XX ABL43700;
XX 11-APR-2002 (first entry)
XX Human chromosome 1p36-35 PCR primer SEQ ID NO:744.
XX Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;
XX PCR primer; ss.
XX Homo sapiens.
XX JP2001321190-A.
XX 20-NOV-2001.
XX
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PF 12-MAR-2001; 2001JP-00068285.
XX
XX
PR 10-MAR-2000; 2000JP-00066716.
XX
XX (RIKA ) RIKAGAKU KENKYUSHO.
PA (GENO-) GENOTEX YG.
XX
XX WPI; 2002-144136/19.
XX
XX Arraying genome clones.
XX
XX Claim 4; Page 19; 528pp; Japanese.
XX
CC The present invention describes a method of arraying genome clones. The
CC method comprises: (a) clones of the genomic libraries contained in
CC multiwell plates numbered for discrimination are mixed in each of the
CC multiwell plates; (b) a primer designed based on the chromosome marker
CC sequence is added to the mixture to carry out an amplification reaction;
CC (c) a signal corresponding to the marker is detected from the resultant
CC amplified product to specify the discrimination Nos. of the multiwell
CC plates containing the clones having said marker sequence; (d) the order
CC of the markers is changed so that the same discrimination Nos. succeeded to
CC the maximum in the specified discrimination Nos. to array the multiwell
CC plates; (e) the clones in the multiwell plates of the specified
CC discrimination Nos. are mixed respectively in each wells of longitudinal
CC and lateral directions; (f) the mixed clones are cultured and the
CC resultant cultures are amplified by using the above primer; (g) signals
CC are detected from the amplified products; (h) the clones in the multiwell
CC plates are specified from the detected result; and (i) the clones are
CC reconstituted as the positions on the chromosome and arrayed. The
CC microarray is useful for gene analysis. ABL42957 to ABL45322 represent
CC PCR primers for human chromosome lp36-35 DNA, and ABL45323 to ABL45634
CC represent PCR primers for human chromosome 21q22.1, which are
CC specifically claimed for use in the present invention
XX
SQ Sequence 19 BP; 5 A; 3 C; 9 G; 2 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 874 CTGGATGACTGTGGGAA 890
Db 1 CTGGAGGACTGAGGGAA 17
RESULT 1431
ID ABS97865/C
XX
XX ABS97865 standard; DNA; 19 BP.
XX
XX ABS97865;
XX
XX 23-DEC-2002 (first entry)
XX
XX Human UDP-glucuronosyl transferase 24B gene PCR primer #2.
XX
XX Human; ss; primer: cytochrome P450 A1; CYP4501A1; UGT2B4; MDR1; PCR;
XX cytochrome P450 A2; CYP4501A2; cytochrome P450 02E; CYP45002E1; LTF;
XX adrenergic receptor beta1; ADH1; aryl hydrocarbon; AHR; MRP3; NR112;
XX aryl hydrocarbon receptor nuclear translocator; ARNT; cathepsin S; CTSS;
XX cyclooxgenase 2; COX2; diazepam binding inhibitor; DBI; haematological;
XX epoxide hydroxylase 2; EPHX2; 5-lipoxygenase activating protein; FLAP;
XX glutathione-S-transferase 12; GST12; histamine-N-methyl transferase;
XX HNMT; kallikrein 2; KLK2; nicotinamide-N-methyl transferase; NNMT;
XX NADPH quinone oxidoreductase 2; NQO2; sulfoltransferase thermolabile; STM;
XX UDP-glucuronosyl transferase 2B4; UDP-glucuronosyl transferase 2B7;
XX UGT2B7; UDP-glucuronosyl transferase; UGT2B15; urokinase receptor; uPA;
XX multidrug resistance 1; lactotransferrin; orphan nuclear receptor;
XX multidrug resistance associated protein 3; cancer; prostate;
XX acetylcholine muscarinic receptor; CHMR1; CHMR2; CHMR3; CHMR4; CHMR5;
XX altered drug metabolism; cardiovascular function; colorectal tumour;
XX central nervous system; pulmonary; immunological.

```

```

OS Homo sapiens.
XX
XX WO200257410-A2.
XX
XX 25-JUL-2002.
XX
XX 28-NOV-2001; 2001WO-US044838.
XX
XX 28-NOV-2000; 2000US-00724389.
XX
XX (DNAS-) DNA SCI LAB INC.
XX
XX Guida M, Hall J;
XX
XX WPI; 2002-698522/75.
XX
XX Isolated nucleic acid molecules having polymorphisms in known human genes
XX e.g. cytochrome p450 and cathepsin S useful as genetic linkage markers
XX for locating, identifying and characterizing the genes responsible for
XX disorder-related traits.
XX
XX Example 18; Page 133; 714pp; English.
XX
CC This invention relates to the sequence of an isolated nucleic acid
CC molecule comprising at least one base variation from that of a known
CC human cytochrome P450 A1 (CYP4501A1), cytochrome P450 A2 (CYP4501A2),
CC cytochrome P450 02E1 (CYP45002E1), adrenergic receptor beta1 (ADH1),
CC aryl hydrocarbon (AHR), aryl hydrocarbon receptor nuclear translocator
CC (ARNT), cathepsin S (CTSS), cyclooxgenase 2 (COX2), diazepam binding
CC inhibitor (DBI), epoxide hydroxylase 2 (EPHX2), 5-lipoxygenase activating
CC protein (FLAP), glutathione-S-transferase 12 (GST12), histamine-N-methyl
CC transferase (HNMT), kallikrein 2) KLK2, nicotinamide -N-methyl
CC transferase (NNMT), NADPH quinone oxidoreductase 2 (NQO2),
CC sulfoltransferase thermolabile (STM), UDP-glucuronosyl transferase 2B4
CC (UGT2B4), UDP-glucuronosyl transferase 2B7 (UGT2B7), UDP-glucuronosyl
CC transferase (UGT2B15), urokinase receptor (uPA), multidrug resistance 1
CC (MDR1), lactotransferrin (LTF), multidrug resistance associated protein 3
CC (MRP3), orphan nuclear receptor (NR112), or acetylcholine muscarinic
CC receptor 1, 2, 3, 4, or 5 (CHMR1, CHMR2, CHMR3, CHMR4 or CHMR5) sequence.
CC The polymorphisms in the human genes cited in the invention are useful as
CC genetic linkage markers for locating and characterising the genes that
CC are responsible for specific traits within the genome and eventually
CC identifying the genes responsible for a variety of disorder-related
CC traits as a result of their e.g., overexpression, constitutive
CC expression, mutation or underexpression, which may be used in diagnosing
CC and/or treating the disorders. The nucleic acid molecules comprising the
CC polymorphic sequences contained in CYP4501A1, CYP4501A2, CYP4502E1,
CC ARNT, EPHX2, GST12, NNMT, NQO2, NR112, STM, UGT2B4, UGT2B7, UGT2B15, AHR,
CC MDR1 and/or MDR3 are useful for screening individuals for altered drug
CC metabolism. The polymorphic sequences contained in CYP4501A1, CYP4501A2,
CC AHR, MDR1 and/or MDR3 may also be used to screen individuals for
CC susceptibility to cancer. Polymorphic sequences in ADH1 or CHMR2 are
CC used to screen for altered cardiovascular function, in COX2 for altered
CC susceptibility to colorectal tumours, in DBI or CHMR1 for altered central
CC nervous system function, in FLAP and HNMT for altered pulmonary,
CC immunological or haematological function, in KLK2 for altered serine
CC protease activity in the prostate, in LTF for altered immunological or
CC haematological function, in CHMR3, CHMR4 or CHMR5 for altered central and
CC peripheral nervous system function. The present sequence represents a PCR
CC primer used to amplify the sequences of the invention
XX
SQ Sequence 19 BP; 3 A; 4 C; 5 G; 7 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 859 GACCTGAAGCAGTACCT 875
Db 19 GACCTGAAGGATACT 3

```

RESULT 1432

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ABL95971/c
ID ABL95971 standard; DNA; 19 BP.
XX
AC ABL95971;
XX
DT 19-JUN-2002 (first entry)
XX
DE Probe #46 for assaying nucleic acids.
XX
XX Probe; polymorphism detection; mutation detection; disease diagnosis;
KW microbial identification; ss.
XX
OS Unidentified.
XX
PN WO200208414-A1.
XX
PD 31-JAN-2002.
XX
PF 27-JUN-2001; 2001WO-IB001147.
XX
PR 27-JUN-2000; 2000JP-00193133.
PR 03-AUG-2000; 2000JP-00236115.
PR 26-SEP-2000; 2000JP-00292483.
XX
PA (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.
PA (KANK-) KANKYO ENG CO LTD.
XX
XX Kurane R, Kanagawa T, Kamagata Y, Torimura M, Kurata S, Yamada K;
PI Yokomaku T;
XX
DR WPI; 2002-195876/25.
XX
PR Fluorescently-labeled nucleic acid probes for assaying nucleic acids and
PT their polymorphism and mutation, particularly useful in science and
PT medicine for e.g. analytical applications, disease diagnosis and
PT microbial identification.
XX
PS Example 42; Page 108; 152pp; Japanese.
XX
XX The present invention relates to nucleic acid probes, which are useful
CC for assaying nucleic acids by hybridising with a target nucleic acid, in
CC which a single-stranded oligonucleotide is labelled with a fluorescent
CC substance and a quencher in a manner that the fluorescence intensity of
CC the hybridisation reaction system is increased after completion of the
CC hybridisation but no stem loop structure is formed. The probes are useful
CC for assaying nucleic acids and their polymorphism and mutation,
CC particularly useful for e.g. analytical applications, disease diagnosis
CC and microbial identification. The present sequence was used to illustrate
CC the invention
XX
SQ Sequence 19 BP; 5 A; 5 C; 7 G; 2 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1721 GCCATGTTACCTGCC 1737
Db 19 GCCATGTCACGTGCC 3

RESULT 1433
ABL95954/c
ID ABL95954 standard; DNA; 19 BP.
XX
AC ABL95954;
XX
DT 19-JUN-2002 (first entry)
XX
DE Probe #31 for assaying nucleic acids.
XX
XX Probe; polymorphism detection; mutation detection; disease diagnosis;
KW microbial identification; ss.

```

```

XX
OS Unidentified.
XX
PN WO200208414-A1.
XX
PD 31-JAN-2002.
XX
PF 27-JUN-2001; 2001WO-IB001147.
XX
PR 27-JUN-2000; 2000JP-00193133.
PR 03-AUG-2000; 2000JP-00236115.
PR 26-SEP-2000; 2000JP-00292483.
XX
PA (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.
PA (KANK-) KANKYO ENG CO LTD.
XX
XX Kurane R, Kanagawa T, Kamagata Y, Torimura M, Kurata S, Yamada K;
PI Yokomaku T;
XX
DR WPI; 2002-195876/25.
XX
PR Fluorescently-labeled nucleic acid probes for assaying nucleic acids and
PT their polymorphism and mutation, particularly useful in science and
PT medicine for e.g. analytical applications, disease diagnosis and
PT microbial identification.
XX
PS Example 41; Page 103; 152pp; Japanese.
XX
XX The present invention relates to nucleic acid probes, which are useful
CC for assaying nucleic acids by hybridising with a target nucleic acid, in
CC which a single-stranded oligonucleotide is labelled with a fluorescent
CC substance and a quencher in a manner that the fluorescence intensity of
CC the hybridisation reaction system is increased after completion of the
CC hybridisation but no stem loop structure is formed. The probes are useful
CC for assaying nucleic acids and their polymorphism and mutation,
CC particularly useful for e.g. analytical applications, disease diagnosis
CC and microbial identification. The present sequence was used to illustrate
CC the invention
XX
SQ Sequence 19 BP; 5 A; 5 C; 7 G; 2 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1721 GCCATGTTACCTGCC 1737
Db 19 GCCATGTCACGTGCC 3

RESULT 1434
ABL95969/c
ID ABL95969 standard; DNA; 19 BP.
XX
AC ABL95969;
XX
DT 19-JUN-2002 (first entry)
XX
DE Probe #44 for assaying nucleic acids.
XX
XX Probe; polymorphism detection; mutation detection; disease diagnosis;
KW microbial identification; ss.
XX
OS Unidentified.
XX
PN WO200208414-A1.
XX
PD 31-JAN-2002.
XX
PF 27-JUN-2001; 2001WO-IB001147.
XX
PR 27-JUN-2000; 2000JP-00193133.
PR 03-AUG-2000; 2000JP-00236115.

```



```

PR 26-SEP-2000; 2000JP-00292483.
XX (NAAD-) NAT INST ADVANCED IND SCI & TECHNOLOGY.
PA (KANK-) KANKYO ENG CO LTD.
XX Kurane R, Kanagawa T, Kamagata Y, Torimura M, Kurata S, Yamada K;
PI Yokomaku T;
XX WPI; 2002-195876/25.
XX Fluorescently-labeled nucleic acid probes for assaying nucleic acids and
PT their polymorphism and mutation, particularly useful in science and
PT medicine for e.g. analytical applications, disease diagnosis and
PT microbial identification.
XX Example 42; Page 108; 152pp; Japanese.
XX The present invention relates to nucleic acid probes, which are useful
CC for assaying nucleic acids by hybridising with a target nucleic acid, in
CC which a single-stranded oligonucleotide is labelled with a fluorescent
CC substance and a quencher in a manner that the fluorescence intensity of
CC the hybridisation reaction system is increased after completion of the
CC hybridisation but no stem loop structure is formed. The probes are useful
CC for assaying nucleic acids and their polymorphism and mutation,
CC particularly useful for e.g. analytical applications, disease diagnosis
CC and microbial identification. The present sequence was used to illustrate
CC the invention
XX
XX Sequence 19 BP; 5 A; 5 C; 7 G; 2 T; 0 U; 0 Other;
SQ Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1721 GCCATGTTACCTGCC 1737
Db 1 GCCATGTCACGTGCC 17

RESULT 1436
ACF62642
ID ACF62642 standard; DNA; 19 BP.
XX
AC ACF62642;
XX
XX 08-OCT-2003 (first entry)
XX
DE Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:471.
XX
XX Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;
XX cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;
XX cytostatic; PCR primer; ss.
XX
OS Synthetic.
XX
XX WO2003013534-A2.
XX
XX 20-FEB-2003.
XX
XX 23-JUL-2002; 2002WO-EP008219.
XX
XX 23-JUL-2001; 2001EP-00117608.
XX
XX 24-MAY-2002; 2002EP-00011710.
XX
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
XX Heinrich G, Kerb R;
XX
XX WPI; 2003-268144/26.
XX
XX New use of irinotecan for preparation of compositions for treating cancer
PT in subject having genome with variant allele comprising cytochrome p450,
PT subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.
XX
XX Disclosure; Page 44; 86pp; English.
XX
XX The present invention describes the use of irinotecan (I) or its
CC derivative for the preparation of a pharmaceutical composition for
CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic
CC cancer, or malignant glioma in a subject having a genome with a variant
CC allele which comprises a cytochrome p450, subfamily IIIA (nifedipine
CC oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have
CC cytostatic activity. The therapeutic applications of (I) is improved,
CC since it is possible to individually treat a subject with an appropriate

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CC dosage and/or an appropriate derivative of (I). Therefore, undesirable,  
CC harmful or toxic effects are efficiently avoided. Unnecessary and  
CC potentially harmful treatment of those subjects who do not respond to the  
CC treatment with substances (nonresponders), as well as the development of  
CC drug resistances due to suboptimal drug dosing can be avoided. ACF62200  
CC to ACF62751 and ABM34912 to ABM35013 represent sequences used in the  
CC exemplification of the present invention

XX SQ Sequence 19 BP; 3 A; 4 C; 5 G; 6 T; 0 U; 1 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 9.8e+02;  
Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 388 TCCTCGGATGAGTGCAGT 406  
||||| : |||||  
DB 1 TCCTCTGAGRATGTGCAGT 19

## RESULT 1437

ACF62643/C  
ID ACF62643 standard; DNA; 19 BP.  
XX AC ACF62643;  
XX AC

DT 08-OCT-2003 (first entry)

DE Cancer based on CYP3A5 related oligonucleotide SEQ ID NO:472.

XX KW Cancer; CYP3A5; irinotecan; pharmaceutical; malignant glioma;  
XX KW cytochrome p450; subfamily IIIA; nifedipine oxidase; polypeptide 5;  
XX KW cytosstatic; PCR primer; ss.

XX OS Synthetic.

XX FN WO2003013534-A2.

XX PD 20-FEB-2003.

XX PF 23-JUL-2002; 2002WO-EP008219.

XX PR 23-JUL-2001; 2001EP-00117608.

XX PR 24-MAY-2002; 2002EP-00011710.

XX DA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX FI Heinrich G, Kerb R;

XX DR WPI; 2003-268144/26.

XX PT New use of irinotecan for preparation of compositions for treating cancer  
PT in subject having genome with variant allele comprising cytochrome p450,  
PT subfamily IIIA, polypeptide 5 polynucleotide, termed CYP3A5.

XX PS Disclosure; Page 44; 86pp; English.

XX CC The present invention describes the use of irinotecan (I) or its  
CC derivative for the preparation of a pharmaceutical composition for  
CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
CC cancer, or malignant glioma in a subject having a genome with a variant  
CC allele which comprises a cytochrome p450, subfamily IIIA (nifedipine  
CC oxidase), polypeptide 5 (CYP3A5) polynucleotide (II). (I) and (II) have  
CC cytosstatic activity. The therapeutic applications of (I) is improved,  
CC since it is possible to individually treat a subject with an appropriate  
CC dosage and/or an appropriate derivative of (I). Therefore, undesirable,  
CC harmful or toxic effects are efficiently avoided. Unnecessary and  
CC potentially harmful treatment of those subjects who do not respond to the  
CC treatment with substances (nonresponders), as well as the development of  
CC drug resistances due to suboptimal drug dosing can be avoided. ACF62200  
CC to ACF62751 and ABM34912 to ABM35013 represent sequences used in the  
CC exemplification of the present invention

XX SQ Sequence 19 BP; 6 A; 5 C; 4 G; 3 T; 0 U; 1 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 9.8e+02;  
Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 388 TCCTCGGATGAGTGCAGT 406  
||||| : |||||  
DB 19 TCCTCTGAGRATGTGCAGT 1

## RESULT 1438

ADB21313  
ID ADB21313 standard; DNA; 19 BP.

XX AC ADB21313;

XX DT 20-NOV-2003 (first entry)

XX DE MRPI based cancer related nucleic acid SEQ ID NO:471.

XX KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;  
XX KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;  
XX KW variant allele; multidrug resistance protein 1; MRPI; cytosstatic; gene;  
XX KW ds.

XX OS Unidentified.

XX FN WO2003013533-A2.

XX PD 20-FEB-2003.

XX PF 23-JUL-2002; 2002WO-EP008200.

XX PR 23-JUL-2001; 2001EP-00117608.

XX PR 24-MAY-2002; 2002EP-00011710.

XX PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.

XX PI Heinrich G, Kerb R;

XX DR WPI; 2003-354397/33.

XX PT Use of irinotecan or its derivative for preparation of a pharmaceutical  
PT composition for treating cancer in a subject having a genome with a  
PT variant allele comprising a multidrug resistance protein 1  
PT polynucleotide.

XX PS Disclosure; Page 54; 100pp; English.

XX CC The present invention describes a method for the use of irinotecan (I) or  
CC its derivative for the preparation of a pharmaceutical composition for  
CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
CC cancer, or malignant glioma in a subject having a genome with a variant  
CC allele which comprises a multidrug resistance protein 1 (MRPI)  
CC polynucleotide (II). (I) has cytosstatic activity. (I) or its derivative  
CC can be used for the preparation of a pharmaceutical composition for  
CC treating colorectal, cervical, gastric, lung, ovarian or pancreatic  
CC cancer, or malignant glioma in a subject, where the subject is a human  
CC (preferably African or Asian) or a mouse. The present sequence represents  
CC a sequence which is used in the exemplification of the present invention.

XX SQ Sequence 19 BP; 3 A; 4 C; 5 G; 6 T; 0 U; 1 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 78.9%; Pred. No. 9.8e+02;  
Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 388 TCCTCGGATGAGTGCAGT 406  
||||| : |||||  
DB 1 TCCTCTGAGRATGTGCAGT 19

## RESULT 1439

```
ADB21314/c
ID ADB21314 standard; DNA; 19 BP.
XX
AC ADB21314;
XX
XX 20-NOV-2003 (first entry)
XX
DE DE
XX
XX MRP1 based cancer related nucleic acid SEQ ID NO:472.
XX
KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;
XX lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
KW variant allele; multidrug resistance protein 1; MRP1; cytosolic; gene;
XX ds.
XX
OS Unidentified.
XX
XX WO2003013533-A2.
XX
XX 20-FEB-2003.
XX
XX 23-JUL-2002; 2002WO-EP008200.
XX
XX 23-JUL-2001; 2001EP-00117608.
XX
XX 24-MAY-2002; 2002EP-00011710.
XX
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
XX Heinrich G, Kerb R;
XX
XX WPI; 2003-354397/33.
XX
XX Use of irinotecan or its derivative for preparation of a pharmaceutical
XX composition for treating cancer in a subject having a genome with a
XX variant allele comprising a multidrug resistance protein 1
XX polynucleotide.
XX
XX Disclosure; Page 54; 100pp; English.
XX
XX The present invention describes a method for the use of irinotecan (I) or
XX its derivative for the preparation of a pharmaceutical composition for
XX treating colorectal, cervical, gastric, lung, ovarian or pancreatic
XX cancer, or malignant glioma in a subject having a genome with a variant
XX allele which comprises a multidrug resistance protein 1 (MRP1)
XX polynucleotide (II). (I) has cytostatic activity. (I) or its derivative
XX can be used for the preparation of a pharmaceutical composition for
XX treating colorectal, cervical, gastric, lung, ovarian or pancreatic
XX cancer, or malignant glioma in a subject, where the subject is a human
XX (preferably African or Asian) or a mouse. The present sequence represents
XX a sequence which is used in the exemplification of the present invention.
XX
XX Sequence 19 BP; 6 A; 5 C; 4 G; 3 T; 0 U; 1 Other;
XX
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 9.8e+02;
Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 388 TCCTCGGATGAGTGCAGT 406
DB 19 TCCTCTGAGRATGTGCAGT 1
RESULT 1440
ADB88402
ID ADB88402 standard; DNA; 19 BP.
XX
XX ADB88402;
XX
XX 04-DEC-2003 (first entry)
XX
XX Human UGT1A1 variant allele sequence fragment SEQ ID NO:443.
XX
ss; irinotecan; cancer; UGT1A1; cytosolic; topoisomerase I inhibitor;
KW colorectal cancer; cervical cancer; gastric cancer; lung cancer;
XX ovarian cancer; pancreatic cancer; malignant glioma;
XX uridine diphosphate glycosyltransferase 1 member A1.
XX
XX Homo sapiens.
XX
XX WO2003013536-A2.
XX
XX 20-FEB-2003.
XX
XX 23-JUL-2002; 2002WO-EP008217.
XX
ss; irinotecan; cancer; UGT1A1; cytosolic; topoisomerase I inhibitor;
KW colorectal cancer; cervical cancer; gastric cancer; lung cancer;
XX ovarian cancer; pancreatic cancer; malignant glioma;
XX uridine diphosphate glycosyltransferase 1 member A1.
XX
XX Homo sapiens.
XX
XX WO2003013536-A2.
XX
XX 20-FEB-2003.
XX
XX 23-JUL-2002; 2002WO-EP008217.
XX
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KW ovarian cancer; pancreatic cancer; malignant glioma;
XX uridine diphosphate glycosyltransferase 1 member A1.
XX
XX Homo sapiens.
XX
XX WO2003013536-A2.
XX
XX 20-FEB-2003.
XX
XX 23-JUL-2002; 2002WO-EP008217.
XX
XX 23-JUL-2001; 2001EP-00117608.
XX
XX 24-MAY-2002; 2002EP-00011710.
XX
XX (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
XX Heinrich G, Kerb R;
XX
XX WPI; 2003-289896/28.
XX
XX Use of irinotecan to treat cancer patient by determining if patient has
XX variant alleles of UGT1A1 gene, administering increased/decreased amounts
XX of irinotecan based on increased/decreased levels of UGT1A1 gene product.
XX
XX Disclosure; Page 58; 107pp; English.
XX
XX The invention relates to the novel use of irinotecan to treat a patient
XX suffering from cancer. This involves determining if the patient has one
XX or more variant alleles of the UGT1A1 gene, and if the patient has one or
XX more of such variant alleles, irinotecan is administered in an increased
XX or decreased amount in comparison to the amount that is administered
XX without regard to the patient's alleles in the UGT1A1 gene. The invention
XX has cytostatic activity. A composition of the invention acts as a
XX topoisomerase I inhibitor. The method is useful for treating a patient,
XX an animal e.g. mouse or a human, preferably African or Asian, suffering
XX from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,
XX pancreatic cancer or malignant glioma. The present sequence is used in
XX the exemplification of the invention.
XX
XX Sequence 19 BP; 3 A; 4 C; 5 G; 6 T; 0 U; 1 Other;
XX
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. No. 9.8e+02;
Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 388 TCCTCGGATGAGTGCAGT 406
DB 1 TCCTCTGAGRATGTGCAGT 19
RESULT 1441
ADB88403/c
ID ADB88403 standard; DNA; 19 BP.
XX
XX ADB88403;
XX
XX 04-DEC-2003 (first entry)
XX
XX Human UGT1A1 variant allele sequence fragment SEQ ID NO:444.
XX
ss; irinotecan; cancer; UGT1A1; cytosolic; topoisomerase I inhibitor;
KW colorectal cancer; cervical cancer; gastric cancer; lung cancer;
XX ovarian cancer; pancreatic cancer; malignant glioma;
XX uridine diphosphate glycosyltransferase 1 member A1.
XX
XX Homo sapiens.
XX
XX WO2003013536-A2.
XX
XX 20-FEB-2003.
XX
XX 23-JUL-2002; 2002WO-EP008217.
XX
```

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PR 23-JUL-2001; 2001EP-00117608.
PR 24-MAY-2002; 2002EP-00011710.
PA (EPID-) EPIDAUS BIOTECHNOLOGIE AG.
XX
XX Heinrich G, Kerb R;
XX
XX WPI; 2003-289896/28.
XX
XX
PT Use of irinotecan to treat cancer patient by determining if patient has
PT variant alleles of UGT1A1 gene, administering increased/decreased amounts
PT of irinotecan based on increased/decreased levels of UGT1A1 gene product.
XX
XX Disclosure; Page 58; 107pp; English.
XX
XX The invention relates to the novel use of irinotecan to treat a patient
CC suffering from cancer. This involves determining if the patient has one
CC or more variant alleles of the UGT1A1 gene, and if the patient has one or
CC more of such variant alleles, irinotecan is administered in an increased
CC or decreased amount in comparison to the amount that is administered
CC without regard to the patient's alleles in the UGT1A1 gene. The invention
CC has cytostatic activity. A composition of the invention acts as a
CC topoisomerase I inhibitor. The method is useful for treating a patient,
CC an animal e.g. mouse or a human, preferably African or Asian, suffering
CC from cancer such as colorectal, cervical, gastric cancer, lung, ovarian,
CC pancreatic cancer or malignant glioma. The present sequence is udes in
CC the exemplification of the invention.
XX
XX Sequence 19 BP; 6 A; 5 C; 4 G; 3 T; 0 U; 1 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 78.9%; Pred. NO. 9.8e-02;
Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0
QY 388 TCCTCGGATGAGTGCCACT 406
Db 19 TCCTCTGGAGTGTGCAGT 1
RESULT 1442
ADB97385
ID ADB97385 standard; DNA; 19 BP.
XX
XX ADB97385;
XX
XX 04-DEC-2003 (first entry)
XX
XX Human MDRI variant allele sequence fragment SEQ ID NO:471.
XX
XX irinotecan; colorectal cancer; cervical cancer; gastric cancer;
KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
KW multidrug resistance 1; MDRI; Cytostatic; human; ds; Cyp3A5; MRP1; MDR1;
KW TOP1.
XX
XX Homo sapiens.
OS
XX
XX WO2003013537-A2.
PN
XX
XX 20-FEB-2003.
PD
XX
XX 23-JUL-2002; 2002WO-EP008218.
XX
XX 23-JUL-2001; 2001EP-00117608.
XX
XX 24-MAY-2002; 2002EP-00011710.
PR
XX
XX (EPID-) EPIDAUS BIOTECHNOLOGIE AG.
FA
XX
XX Heinrich G, Kerb R;
XX
XX WPI; 2003-268145/26.
DR
XX
XX New use of irinotecan for preparation of pharmaceutical compositions for
PT treating cancer in subject having genome with variant allele comprising
PT
```

PT	multidrug resistance 1 polynucleotide.									
XX	Disclosure; Page 82; 130pp; English.									
XX	The invention relates to the novel use of irinotecan or its derivative									
CC	for the preparation of pharmaceutical compositions for treating									
CC	colorectal, cervical, gastric, lung, ovarian or pancreatic cancer, or									
CC	malignant glioma in a subject having a genome with a variant allele which									
CC	comprises a multidrug resistance 1 (MDR1) polynucleotide. A composition									
CC	of the invention has cytostatic activity. The invention is useful for the									
CC	preparation of pharmaceutical compositions for treating colorectal,									
CC	cervical, gastric, lung, ovarian or pancreatic cancer, or malignant									
CC	glioma in a subject (preferably human, more preferably African or Asian)									
CC	or a mouse. The present sequence is used in the exemplification of the									
XX	invention.									
XX	Sequence 19 BP; 3 A; 4 C; 5 G; 6 T; 0 U; 1 Other;									
XX	Query Match 0.8%; Score 13.8; DB 1; Length 19;									
XX	Best Local Similarity 78.9%; Pred. No. 9.8e+02;									
XX	Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;									
QY	388 TCCTCGGATGAGGTGCAGT 406									
DB	:									
DB	1 TCCTCTGAGRATGTGCAGT 19									
RESULT 1443										
AD	B97386/C									
ID	ADB97386 standard; DNA; 19 BP.									
XX	AC ADB97386;									
XX	04-DEC-2003 (first entry)									
XX	Human MDR1 variant allele sequence fragment SEQ ID NO:472.									
KW	irinotecan; colorectal cancer; cervical cancer; gastric cancer;									
KW	lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;									
KW	multidrug resistance 1; MDR1; cytosstatic; human; ds; Cyp3A5; MRP1; MDR1;									
KW	TOP1.									
OS	Homo sapiens.									
PN	WO2003013537-A2.									
PD	20-FEB-2003.									
XX	23-JUL-2002; 2002WO-EP008218.									
XX	23-JUL-2001; 2001EP-00117608.									
PR	24-MAY-2002; 2002EP-00011710.									
XX	(EPID-) EPIDAUROS BIOTECHNOLOGIE AG.									
XX	Heinrich G, Kerb R;									
XX	WPI; 2003-268145/26.									
DR	New use of irinotecan for preparation of pharmaceutical compositions for									
PT	treating cancer in subject having genome with variant allele comprising									
PT	multidrug resistance 1 polynucleotide.									
PS	Disclosure; Page 82; 130pp; English.									
XX	The invention relates to the novel use of irinotecan or its derivative									
CC	for the preparation of pharmaceutical compositions for treating									
CC	colorectal, cervical, gastric, lung, ovarian or pancreatic cancer, or									
CC	malignant glioma in a subject having a genome with a variant allele which									
CC	comprises a multidrug resistance 1 (MDR1) polynucleotide. A composition									
CC	of the invention has cytostatic activity. The invention is useful for the									
CC	preparation of pharmaceutical compositions for treating colorectal,									
CC	cervical, gastric, lung, ovarian or pancreatic cancer, or malignant									

```
CC glioma in a subject (preferably human, more preferably African or Asian)
CC or a mouse. The present sequence is used in the exemplification of the
CC invention.
XX
SQ Sequence 19 BP; 6 A; 5 C; 4 G; 3 T; 0 U; 1 Other;
    Query Match      0.8%; Score 13.8; DB 1; Length 19;
    Best Local Similarity 78.9%; Pred. No. 9.8e+02;
    Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 388 TCCTCGGATGAGTGCAGT 406
Db 19 TCCTCTGAGRATGTGCAGT 1
RESULT 1444
ADB92576
ID ADB92576 standard; DNA; 19 BP.
XX
AC ADB92576;
XX
DT 04-DEC-2003 (first entry)
XX
DE Human MDR1 variant allele sequence fragment SEQ ID NO:471.
XX
KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;
KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
KW multidrug resistance 1; MDRI; cytostatic; ds; human; UGT1A1; MRP1; TOP1.
XX
OS Homo sapiens.
XX
PN WO2003013535-A2.
XX
PD 20-FEB-2003.
XX
PF 23-JUL-2002; 2002WO-EP008220.
XX
PR 23-JUL-2001; 2001EP-00117608.
XX
PR 24-MAY-2002; 2002EP-00011710.
XX
PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
PI Heinrich G, Kerb R;
XX
WPI; 2003-342400/32.
XX
New use of irinotecan for preparation of pharmaceutical compositions for
treating cancer in subject having genome with variant allele comprising
multidrug resistance 1 polynucleotide.
XX
Disclosure; Page 54; 104pp; English.
XX
The invention relates to a novel use of irinotecan or its derivative for
the preparation of a pharmaceutical composition for treating colorectal,
cervical, gastric, lung, ovarian or pancreatic cancer, or malignant
glioma in a subject having a genome with a variant allele which comprises
a multidrug resistance 1 (MDRI) polynucleotide. A composition of the
invention has cytostatic activity. The present sequence is used in the
exemplification of the invention.
XX
SQ Sequence 19 BP; 3 A; 4 C; 5 G; 6 T; 0 U; 1 Other;
    Query Match      0.8%; Score 13.8; DB 1; Length 19;
    Best Local Similarity 78.9%; Pred. No. 9.8e+02;
    Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 388 TCCTCGGATGAGTGCAGT 406
Db 1 TCCTCTGAGRATGTGCAGT 19
RESULT 1445
ADB92577/c
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ID ADB92577 standard; DNA; 19 BP.
XX
AC ADB92577;
XX
DT 04-DEC-2003 (first entry)
XX
DE Human MDR1 variant allele sequence fragment SEQ ID NO:472.
XX
KW irinotecan; colorectal cancer; cervical cancer; gastric cancer;
KW lung cancer; ovarian cancer; pancreatic cancer; malignant glioma;
KW multidrug resistance 1; MDRI; cytostatic; ds; human; UGT1A1; MRP1; TOP1.
XX
OS Homo sapiens.
XX
PN WO2003013535-A2.
XX
PD 20-FEB-2003.
XX
PF 23-JUL-2002; 2002WO-EP008220.
XX
PR 23-JUL-2001; 2001EP-00117608.
XX
PR 24-MAY-2002; 2002EP-00011710.
XX
PA (EPID-) EPIDAUROS BIOTECHNOLOGIE AG.
XX
PI Heinrich G, Kerb R;
XX
WPI; 2003-342400/32.
XX
New use of irinotecan for preparation of pharmaceutical compositions for
treating cancer in subject having genome with variant allele comprising
multidrug resistance 1 polynucleotide.
XX
Disclosure; Page 54; 104pp; English.
XX
The invention relates to a novel use of irinotecan or its derivative for
the preparation of a pharmaceutical composition for treating colorectal,
cervical, gastric, lung, ovarian or pancreatic cancer, or malignant
glioma in a subject having a genome with a variant allele which comprises
a multidrug resistance 1 (MDRI) polynucleotide. A composition of the
invention has cytostatic activity. The present sequence is used in the
exemplification of the invention.
XX
SQ Sequence 19 BP; 6 A; 5 C; 4 G; 3 T; 0 U; 1 Other;
    Query Match      0.8%; Score 13.8; DB 1; Length 19;
    Best Local Similarity 78.9%; Pred. No. 9.8e+02;
    Matches 15; Conservative 1; Mismatches 3; Indels 0; Gaps 0;
QY 388 TCCTCGGATGAGTGCAGT 406
Db 19 TCCTCTGAGRATGTGCAGT 1
RESULT 1446
ADB9803/c
ID ADD989803 standard; DNA; 19 BP.
XX
AC ADD989803;
XX
DT 29-JAN-2004 (first entry)
XX
DE Hamster high mobility group, HMG-I(Y), RT-PCR primer.
XX
KW Hamster; high mobility group; HMG-I(Y); ss; primer;
KW expression augmenting sequence element; BASE; RT-PCR;
KW reverse transcriptase PCR; PCR.
XX
OS Cricetulus griseus.
XX
PN US2003008345-A1.
XX
PD 09-JAN-2003.
```

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XX 09-OCT-2001; 2001US-00973928.
PF
XX 11-JAN-1996; 96US-005866509.
PR
XX 13-JAN-1997; 97US-00785150.
PR
XX 05-NOV-1999; 99US-00435377.
PR
XX 02-MAR-2000; 2000US-0186537P.
PR
XX 12-SEP-2000; 2000US-00660299.
XX
XX (MORRIS/) MORRIS A E.
FA (THOM/) THOMAS J N.
XX
XX Morris AE, Thomas JN;
PI
XX WPI; 2003-863362/80.
XX
XX New isolated polynucleotide used for producing recombinant protein by
PT culturing mammalian host cell.
XX
XX Example 16; Page 13; 27pp; English.
XX
XX The invention relates to an isolated polynucleotide comprising a nucleic
CC acid molecule comprising nucleotides 11538-11692, nucleotides 11538-
CC 11760, nucleotides 11673-12165, nucleotides 11813-12165 or nucleotides
CC 11760-12165 of ADH8798, the hamster high mobility group, HMG-I(Y) gene,
CC fragments of the DNA having expression augmenting activity (an expression
CC augmenting sequence element, EASE) or their combinations or complementary
CC DNA. Also included are a mammalian host cell which comprises the
CC polynucleotide, and production of a recombinant protein which comprises
CC culturing the cell under conditions promoting expression of the protein.
CC The polynucleotides are used for production of recombinant protein,
CC particularly in eukaryotic cells for research and therapeutic
CC applications. The method is also used for identifying expression
CC augmenting sequence elements e.g. from other transformed cell lines. High
CC expression of recombinant proteins is facilitated in a short period. The
CC present sequence is a reverse transcriptase (RT)-PCR primer used to
CC isolate the hamster HMG-I(Y) cDNA.
XX
XX Sequence 19 BP; 2 A; 9 C; 3 G; 5 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 390 CTCGATGAGTGCAGT 406
Db 19 CTCGAGGAGGAGCAGT 3
RESULT 1447
ADE27518
ID ADE27518 standard; RNA; 19 BP.
XX
XX ADE27518;
AC
XX
XX 29-JAN-2004 (first entry)
DT
XX
XX Stearyl-CoA desaturase siNA oligonucleotide SEQ ID NO:462.
DE
XX
XX short interfering nucleic acid; siNA; downregulation; inhibition; SCD;
KW stearyl-CoA desaturase; RNA interference; anorectic; antidiabetic;
KW antiarteriosclerotic; cytosstatic; virucide; obesity; diabetes;
KW atherosclerosis; cancer; viral infection; drug screening;
KW genetic engineering; pharmacogenomic; gene mapping; ss.
XX
XX Synthetic.
OS
XX
XX WO2003070895-A2.
PN
XX
XX 28-AUG-2003.
PD
XX
XX 13-FEB-2003; 2003WO-US004317.
PF
XX
XX

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PR 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 20-SEP-2002; 2002US-0412304P.
PR 15-JAN-2003; 2003US-0440129P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
FA
XX
XX Mcswiggen J, Beigelman L, Thompson J;
PI
XX WPI; 2003-721687/68.
XX
XX New short interfering nucleic acid, useful e.g. for treatment and
PT diagnosis of obesity or diabetes, downregulates expression of the
PT stearyl-CoA desaturase gene.
XX
XX Example 3; SEQ ID NO 462; 139pp; English.
XX
XX The present invention describes a short interfering nucleic acid (siNA)
CC that downregulates expression of the SCD (stearyl-CoA desaturase) gene
CC by RNA interference. Also described: (1) modulating expression of SCD
CC genes in cells, tissue explants or organisms by introduction of siNA; (2)
CC kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or
CC complexes of siNA; and (4) vectors that express siNA. SCD inhibiting
CC siNAs have anorectic, antidiabetic, antiarteriosclerotic, cytostatic and
CC virucide activities. The siNAs can be used to modulate expression of SCD
CC genes, in cells, tissue explants or organisms, e.g. for treating obesity;
CC diabetes (types I and II); atherosclerosis; cancer and viral infections.
CC They can also be used for drug screening; diagnosis; target
CC identification and validation, genetic engineering; pharmacogenomics;
CC studying gene function and gene mapping (e.g. of single-nucleotide
CC polymorphisms). The present sequence represents an SCD siNA, which is
CC used in the exemplification of the present invention.
XX
XX Sequence 19 BP; 5 A; 3 C; 8 G; 0 T; 3 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 9.8e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
Qy 1085 AGGTGGTGACACTGTGG 1101
Db 2 AGGUGGAGACACUGCGG 18
RESULT 1448
ADE27228/c
ID ADE27228 standard; RNA; 19 BP.
XX
XX ADE27228;
AC
XX
XX 29-JAN-2004 (first entry)
DT
XX
XX Stearyl-CoA desaturase siNA oligonucleotide SEQ ID NO:172.
DE
XX
XX short interfering nucleic acid; siNA; downregulation; inhibition; SCD;
KW stearyl-CoA desaturase; RNA interference; anorectic; antidiabetic;
KW antiarteriosclerotic; cytosstatic; virucide; obesity; diabetes;
KW atherosclerosis; cancer; viral infection; drug screening;
KW genetic engineering; pharmacogenomic; gene mapping; ss.
XX
XX Synthetic.
OS
XX
XX WO2003070895-A2.
PN
XX
XX 28-AUG-2003.
PD
XX
XX 13-FEB-2003; 2003WO-US004317.
PF
XX
XX 20-FEB-2002; 2002US-0358580P.
PR

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PR 11-MAR-2002; 2002US-0363124P.
PR 06-JUN-2002; 2002US-0386782P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 20-SEP-2002; 2002US-0412304P.
PR 15-JAN-2003; 2003US-0440129P.
XX
PA (RIBO-) RIBOZYME PHARM INC.
XX
XX Mswiggen J, Beigelman L, Thompson J;
PI
XX WPI; 2003-721687/68.
XX
XX New short interfering nucleic acid, useful e.g. for treatment and
PT diagnosis of obesity or diabetes, downregulates expression of the
PT stearyl-CoA desaturase gene.
XX
XX Example 3; SEQ ID NO 172; 139pp; English.
XX
XX The present invention describes a short interfering nucleic acid (siNA)
CC that downregulates expression of the SCD (stearyl-CoA desaturase) gene
CC by RNA interference. Also described: (1) modulating expression of SCD
CC genes in cells, tissue explants or organisms by introduction of siNA; (2)
CC kits for in vitro or in vivo delivery of siNA; (3) conjugates and/or
CC complexes of siNA; and (4) vectors that express siNA. SCD inhibiting
CC siNAs have anorectic, antidiabetic, antiarteriosclerotic, cytostatic and
CC virucide activities. The siNAs can be used to modulate expression of SCD
CC genes, in cells, tissue explants or organisms, e.g. for treating obesity;
CC diabetes (types I and II); atherosclerosis; cancer and viral infections.
CC They can also be used for drug screening; diagnosis; target
CC identification and validation; genetic engineering; pharmacogenomics;
CC studying gene function and gene mapping (e.g. of single-nucleotide
CC polymorphisms). The present sequence represents an SCD siNA, which is
CC used in the exemplification of the present invention.
XX
XX Sequence 19 BP; 3 A; 8 C; 3 G; 0 T; 5 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 88.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 1085 AGGTGGTGACACTGTGG 1101
Db ||||| ||||| ||
18 AGGTGGAGACTGCGG 2
RESULT 1449
ADF37256
ID ADF37256 standard; RNA; 19 BP.
XX
AC ADF37256;
XX
XX 12-FEB-2004 (first entry)
XX
XX Human VEGFR3 short interfering nucleic acid (siNA) SEQ ID NO:1545.
XX
XX double-stranded short interfering nucleic acid;
KW short interfering nucleic acid; siNA; downregulation;
KW vascular endothelial growth factor receptor; VEGFR; antiangiogenic;
KW cytostatic; antidiabetic; ophthalmological; antiarthritic; antipsoriatic;
KW nephrotropic; gynaecological; angiogenesis-associated condition; cancer;
KW diabetic retinopathy; macular degeneration; neovascular glaucoma;
KW arthritis; psoriasis; endometriosis; angiofibroma;
KW polycystic kidney disease; ss.
XX
XX Synthetic.
OS Homo sapiens.
XX
XX WO2003070910-A2.
PN
XX 28-AUG-2003.
XX
XX

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PF 20-FEB-2003; 2003WO-US005022.
XX
XX 20-FEB-2002; 2002US-0358580P.
PR 11-MAR-2002; 2002US-0363124P.
PR 29-MAY-2002; 2002WO-US017674.
PR 06-JUN-2002; 2002US-0386782P.
PR 03-JUL-2002; 2002US-0393796P.
PR 29-JUL-2002; 2002US-0399348P.
PR 29-AUG-2002; 2002US-0406784P.
PR 05-SEP-2002; 2002US-0408378P.
PR 09-SEP-2002; 2002US-0409293P.
PR 04-NOV-2002; 2002US-00287949.
PR 27-NOV-2002; 2002US-00306747.
PR 15-JAN-2003; 2003US-0440129P.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX Mswiggen J, Beigelman L, Pavco P;
PI
XX WPI; 2003-679876/64.
XX
XX New double-stranded interfering nucleic acid, useful e.g. for treatment
PT and diagnosis of cancer, downregulates the vascular endothelial growth
PT factor receptor gene.
XX
XX Example 3; SEQ ID NO 1545; 207pp; English.
XX
XX The present invention describes a double-stranded short interfering
CC nucleic acid (siNA) that downregulates expression of the vascular
CC endothelial growth factor receptor (VEGFR) gene. Also described: (1) a
CC siNA that downregulates the VEGF gene; (2) kits for in vitro or in vivo
CC delivery of siNA; (3) conjugates and/or complexes of siNA; (4) vectors
CC that express siNA; and (5) single-stranded siNA with similar properties.
CC The siNAs have antiangiogenic, cytostatic, antidiabetic,
CC ophthalmological, antiarthritic, antipsoriatic, nephrotropic and
CC (downregulating) the expression of VEGFR genes. The siNA are potentially
CC useful for treating a wide range of angiogenesis-associated conditions,
CC particularly cancers, diabetic retinopathy, macular degeneration,
CC neovascular glaucoma, arthritis, psoriasis, endometriosis, angiofibroma,
CC and polycystic kidney disease. The siNA may also be useful for diagnosis,
CC drug screening, target identification and validation, genetic
CC engineering, studying gene function, and also for gene mapping (e.g. of
CC single-nucleotide polymorphisms). The present sequence is used in the
CC exemplification of the present invention.
XX
XX Sequence 19 BP; 5 A; 5 C; 5 G; 0 T; 4 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 76.5%; Pred. No. 9.8e+02;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 517 GAGAGCTGACCTCAA 533
Db ||||| ||||| ||
1 GAGAGCTGGUCUCA 17
RESULT 1450
ADF37503/c
ID ADF37503 standard; RNA; 19 BP.
XX
AC ADF37503;
XX
XX 12-FEB-2004 (first entry)
XX
XX Human VEGFR3 short interfering nucleic acid (siNA) SEQ ID NO:1792.
XX
XX double-stranded short interfering nucleic acid;
KW short interfering nucleic acid; siNA; downregulation;
KW vascular endothelial growth factor receptor; VEGFR; antiangiogenic;
KW cytostatic; antidiabetic; ophthalmological; antiarthritic; antipsoriatic;
KW nephrotropic; gynaecological; angiogenesis-associated condition; cancer;
KW diabetic retinopathy; macular degeneration; neovascular glaucoma;

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KW arthritis; psoriasis; endometriosis; angiofibroma;  
XX polycystic kidney disease; ss.  
OS Synthetic.  
XX Homo sapiens.  
XX WO2003070910-A2.  
PN  
XX  
PD 28-AUG-2003.  
XX  
PF 20-FEB-2003; 2003WO-US005022.  
XX  
PR 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 29-MAY-2002; 2002WO-US017674.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 03-JUL-2002; 2002US-0393796P.  
PR 29-JUL-2002; 2002US-0399348P.  
PR 28-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 04-NOV-2002; 2002US-00287949.  
PR 27-NOV-2002; 2002US-00306747.  
PR 15-JAN-2003; 2003US-0440129P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
XX Meswiggen J, Beigelman L, Pavco P;  
PI  
XX WPI; 2003-679876/64.  
DR  
XX  
PT New double-stranded interfering nucleic acid, useful e.g. for treatment  
PT and diagnosis of cancer, downregulates the vascular endothelial growth  
PT factor receptor gene.  
XX  
XX Example 3; SEQ ID NO 1792; 207pp; English.  
PS  
XX  
CC The present invention describes a double-stranded short interfering  
CC nucleic acid (siNA) that downregulates expression of the vascular  
CC endothelial growth factor receptor (VEGFR) gene. Also described: (1) a  
CC siNA that downregulates the VEGF gene; (2) kits for in vitro or in vivo  
CC delivery of siNA; (3) conjugates and/or complexes of siNA; (4) vectors  
CC that express siNA; and (5) single-stranded siNA with similar properties.  
CC The siNAs have antiangiogenic, cytostatic, antidiabetic,  
CC ophthalmological, antiarthritic, antipsoriatic, nephrotropic and  
CC gynaecological activities. The siNA are useful for modulating  
CC (downregulating) the expression of VEGFR genes. The siNA are potentially  
CC useful for treating a wide range of angiogenesis-associated conditions,  
CC particularly cancers, diabetic retinopathy, macular degeneration,  
CC neovascular glaucoma, arthritis, psoriasis, endometriosis, angiofibroma,  
CC and polycystic kidney disease. The siNA may also be useful for diagnosis,  
CC drug screening, target identification and validation, genetic  
CC engineering, studying gene function, and also for gene mapping (e.g. of  
CC single-nucleotide polymorphisms). The present sequence is used in the  
CC exemplification of the present invention.  
XX  
SQ Sequence 19 BP; 4 A; 5 C; 5 G; 0 T; 5 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 517 GAGAGCTGACCTCAAA 533  
Db |||||  
19 GAGAGCTGCTCAAA 3  
RESULT 1451  
ADF31705  
ID ADF31705 standard; RNA; 19 BP.  
XX  
AC ADF31705;  
XX

DT 12-FEB-2004 (first entry)  
XX  
DE Human IGF-1R siNA lower strand, SEQ ID NO:370.  
XX  
KW RNA interference; short interfering nucleic acid; siNA;  
KW short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;  
KW short hairpin RNA; shRNA; expression modulation; gene therapy;  
KW drug screening; diagnosis; therapeutic target identification;  
KW pharmacogenomics; gene function analysis; gene mapping; cancer;  
KW proliferative disease; restenosis; polycystic kidney disease;  
KW inflammatory disease; allergic disease; autoimmune disease;  
KW transplant rejection; cytostatic; vasotrophic; nephrotropic;  
KW antiinflammatory; antiallergic; immunosuppressive; human;  
KW insulin-like growth factor 1 receptor; IGF-1R; ss.  
OS Homo sapiens.  
XX  
XX WO2003070911-A2.  
XX  
XX 28-AUG-2003.  
PD  
XX  
PF 20-FEB-2003; 2003WO-US005044.  
XX  
PR 20-FEB-2002; 2002US-0358580P.  
PR 11-MAR-2002; 2002US-0363124P.  
PR 06-JUN-2002; 2002US-0386782P.  
PR 29-AUG-2002; 2002US-0406784P.  
PR 05-SEP-2002; 2002US-0408378P.  
PR 09-SEP-2002; 2002US-0409293P.  
PR 15-JAN-2003; 2003US-0440129P.  
XX  
PA (RIBO-) RIBOZYME PHARM INC.  
XX  
XX Meswiggen J, Beigelman L, Chowrira B;  
PI  
XX WPI; 2003-721691/68.  
DR  
XX  
PT New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of cancer, downregulates expression of the insulin-like growth  
PT factor-1 receptor gene.  
XX  
XX Example 3; SEQ ID NO 370; 147pp; English.  
XX  
CC The invention relates to short interfering nucleic acids (siNA) which  
CC downregulate expression of the human insulin-like growth factor 1  
CC receptor (IGF-1R) gene by RNA interference. The siNAs may or may not  
CC comprise ribonucleotides and may be double or single stranded. They  
CC further comprise sense and antisense regions, or alternatively are  
CC assembled from a sense oligonucleotide and an antisense oligonucleotide.  
CC Specifically, the siNAs include short interfering RNA (siRNA), double-  
CC stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs  
CC can be unmodified or chemically modified, can contain  
CC deoxyribonucleotides, and can be chemically synthesised, expressed from a  
CC vector or enzymatically synthesised. The invention also relates to kits  
CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes  
CC of siNA; and vectors that express siNA. The siNAs are used to modulate  
CC expression of the IGF-1R gene in cells, tissue explants or organisms  
CC (e.g., by ex vivo gene therapy), or in grafts and transplants for the  
CC treatment of a variety of conditions. They may be used for treating  
CC cancer and other proliferative diseases (e.g., restenosis and polycystic  
CC kidney disease), inflammatory and/or allergic diseases, autoimmune  
CC diseases and transplant rejection. The siNAs are also useful for drug  
CC screening, diagnosis, therapeutic target identification and validation,  
CC genetic engineering, pharmacogenomics, studying gene function, and gene  
CC mapping (e.g., of single nucleotide polymorphisms). The present sequence  
CC represents the lower strand of a human IGF-1R-targeted double-stranded  
CC siNA.  
XX  
SQ Sequence 19 BP; 4 A; 8 C; 4 G; 0 T; 3 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 76.5%; Pred. No. 9.8e+02;  
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1283 CAGGCATCTGTCCAC 1299  
|||||:|:|:|  
Db 2 CAGGCAUCUGCCCAUC 18

RESULT 1452  
ADF31428/c  
ID ADF31428 standard; RNA; 19 BP.  
AC ADF31428;  
XX  
XX  
DT 12-FEB-2004 (first entry)  
DE Human IGF-1R transcript target sequence/siNA upper strand, SEQ ID NO:93.  
XX  
XX RNA interference; short interfering nucleic acid; siNA;  
KW short interfering RNA; siRNA; double-stranded RNA; micro-RNA; miRNA;  
KW short hairpin RNA; shRNA; expression modulation; gene therapy;  
KW drug screening; diagnosis; therapeutic target identification;  
KW pharmacogenomics; gene function analysis; gene mapping; cancer;  
KW proliferative disease; restenosis; polycystic kidney disease;  
KW inflammatory disease; allergic disease; autoimmune disease;  
KW transplant rejection; cytostatic; vasotropic; nephrotropic;  
KW antiinflammatory; antiallergic; immunosuppressive; human;  
KW insulin-like growth factor 1 receptor; IGF-1R; target sequence; ss.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO2003070911-A2.  
PN  
XX  
XX 28-AUG-2003.  
PD  
XX  
XX 20-FEB-2003; 2003WO-US005044.  
PF  
XX  
XX 20-FEB-2002; 2002US-0358580P.  
PR  
XX 11-MAR-2002; 2002US-0363124P.  
PR  
XX 06-JUN-2002; 2002US-0386782P.  
PR  
XX 29-AUG-2002; 2002US-0406784P.  
PR  
XX 05-SEP-2002; 2002US-0408378P.  
PR  
XX 09-SEP-2002; 2002US-0409293P.  
PR  
XX 15-JAN-2003; 2003US-0440129P.  
XX  
XX (RIBO-) RIBOZYME PHARM INC.  
PA  
XX  
XX Mcswiggen J, Beigelman L, Chowrira B;  
PI  
XX  
XX WPI; 2003-721691/68.  
DR  
XX  
XX New short interfering nucleic acid, useful e.g. for treatment and  
PT diagnosis of cancer, downregulates expression of the insulin-like growth  
PT factor-1 receptor gene.  
XX  
XX  
XX Example 3; SEQ ID NO 93; 147pp; English.  
PS  
XX  
XX The invention relates to short interfering nucleic acids (siNA) which  
CC downregulate expression of the human insulin-like growth factor 1  
CC receptor (IGF-1R) gene by RNA interference. The siNAs may or may not  
CC comprise ribonucleotides and may be double or single stranded. They  
CC further comprise sense and antisense regions, or alternatively are  
CC assembled from a sense oligonucleotide and an antisense oligonucleotide.  
CC Specifically, the siNAs include short interfering RNA (siRNA), double-  
CC stranded RNA, micro-RNA (miRNA) and short hairpin RNA (shRNA). The siNAs  
CC can be unmodified or chemically modified, can contain  
CC deoxyribonucleotides, and can be chemically synthesised, expressed from a  
CC vector or enzymatically synthesised. The invention also relates to kits  
CC for the in vitro or in vivo delivery of siNA; conjugates and/or complexes  
CC of siNA; and vectors that express siNA. The siNAs are used to modulate  
CC expression of the IGF-1R gene in cells, tissue explants or organisms  
CC (e.g., by ex vivo gene therapy), or in grafts and transplants for the  
CC treatment of a variety of conditions. They may be used for treating  
CC cancer and other proliferative diseases (e.g., restenosis and polycystic  
CC kidney disease), inflammatory and/or allergic diseases, autoimmune

CC diseases and transplant rejection. . The siNAs are also useful for drug  
CC screening, diagnosis, therapeutic target identification and validation,  
CC genetic engineering, pharmacogenomics, studying gene function, and gene  
CC mapping (e.g., of single nucleotide polymorphisms). The present sequence  
CC represents the upper strand of a human IGF-1R-targeted double-stranded  
CC siNA, which is identical to the IGF-1R transcript target sequence.  
XX  
XX  
SQ Sequence 19 BP; 3 A; 4 C; 8 G; 0 T; 4 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1283 CAGGCATCTGTCCAC 1299  
|||||:|:|:|  
Db 18 CAGGCAUCUGCCCAUC 2

RESULT 1453  
ADF13396  
ID ADF13396 standard; DNA; 19 BP.  
XX  
AC ADF13396;  
XX  
XX 12-FEB-2004 (first entry)  
DT  
XX  
XX Apolipoprotein C-III, BaysNP 1837, PCR primer #2.  
DE  
XX  
XX Cardiant; antiarteriosclerotic; vasotropic; cerebroprotective;  
KW hypotensive; gene therapy; human; apolipoprotein C-III; PCR; primer; ss.  
XX  
XX Homo sapiens.  
OS  
XX WO2003072813-A2.  
PN  
XX  
XX 04-SEP-2003.  
PD  
XX  
XX 14-FEB-2003; 2003WO-EP001514.  
PF  
XX  
XX 27-FEB-2002; 2002EP-00004258.  
PR  
XX  
XX (FARB ) BAYER AG.  
PA  
XX  
XX Stropp U, Schwerts S, Kallabis H;  
PI  
XX  
XX WPI; 2003-712738/67.  
DR  
XX  
XX New isolated polynucleotide encoded by a phenotype-associated gene,  
PT useful for prognosticating statin therapy response, and diagnosing or  
PT treating cardiovascular diseases, such as hypertension, myocardial  
PT infarction and stroke.  
XX  
XX  
XX Example 1; Page 67; 182pp; English.  
PS  
XX  
XX The present invention relates to human phenotype-associated (PA) genes (I  
CC ; ADF13307-ADF13386) which contain a Single Nucleotide Polymorphism  
CC (SNP). The SNP is given in the sequence as a variant nucleotide. Also  
CC claimed are methods for screening for agents which regulate the activity  
CC of a PA gene and reagents that modulate the activity of a PA polypeptide  
CC or a polynucleotide where the reagent is identified by the screening  
CC methods. The methods and compositions of the present invention are useful  
CC for prognosticating, diagnosing and treating cardiovascular diseases,  
CC such as atherosclerosis, hypertension, restenosis, arterial inflammation,  
CC myocardial infarction and stroke. The present sequence is a PCR primer,  
CC used in the examples from the invention.  
XX  
XX  
SQ Sequence 19 BP; 2 A; 10 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 306 CCCACTCAGCTCTGCAC 322



```
Db      1  CCCACTCAGCCGCTGCTC 17
|||||
RESULT 1454
ADF84627/c
ID  ADF84627 standard; RNA; 19 BP.
XX
AC  ADF84627;
XX
DT  26-FEB-2004 (first entry)
XX
DE  Human ABL1-targeted siRNA - SEQ ID 921.
XX
KW  short interfering nucleic acid; siRNA; breakpoint cluster region;
KW  v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL;
KW  cytosstatic; leukaemia; lymphoma; human; ss; siRNA; ABL1.
XX
OS  Homo sapiens.
XX
PN  WO2003070972-A2.
XX
PD  28-AUG-2003.
XX
PF  20-FEB-2003; 2003WO-US005234.
XX
PR  20-FEB-2002; 2002US-0358580P.
PR  11-MAR-2002; 2002US-0363124P.
PR  06-JUN-2002; 2002US-0386782P.
PR  15-AUG-2002; 2002US-0404039P.
PR  29-AUG-2002; 2002US-0406784P.
PR  05-SEP-2002; 2002US-0408378P.
PR  09-SEP-2002; 2002US-0409293P.
PR  14-JAN-2003; 2003US-0439922P.
PR  15-JAN-2003; 2003US-0440129P.
XX
PA  (RIBO-) RIBOZYME PHARM INC.
XX
PI  Mcswiggen J, Beigelman L, Chowrira B;
XX
DR  WPI; 2003-679889/64.
XX
PT  New double-stranded interfering nucleic acid, useful e.g. for treatment
PT  and diagnosis of leukemia and lymphoma, downregulates the breakpoint
PT  cluster region-Abelson (BCR-ABL) gene.
XX
PS  Example 7; SEQ ID NO 921; 197pp; English.
XX
CC  The invention relates to a novel double-stranded short interfering
CC  nucleic acid (siRNA) that downregulates expression of the breakpoint
CC  cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1
CC  (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic
CC  activity and may be useful for modulating expression of the BCR-ABL gene,
CC  as well as for treating leukaemia or lymphoma and in diagnosis, drug
CC  screening, target identification and validation, genetic engineering,
CC  gene function studies and gene mapping. The current sequence is that of
CC  the human ABL1-targeted siRNA of the invention.
XX
SQ  Sequence 19 BP; 1 A; 8 C; 4 G; 0 T; 6 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 86.2%; Pred. No. 9.8e+02;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy  953 GCCACCGCAGAGGTG 969
|||
Db  19 GCAACCGCAGAGGTG 3

RESULT 1455
ADF84791
ID  ADF84791 standard; RNA; 19 BP.
XX
```

```
AC  ADF84791;
XX
DT  26-FEB-2004 (first entry)
XX
DE  Human ABL1-targeted siRNA - SEQ ID 1085.
XX
KW  short interfering nucleic acid; siRNA; breakpoint cluster region;
KW  v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL;
KW  cytosstatic; leukaemia; lymphoma; human; ss; siRNA; ABL1.
XX
OS  Homo sapiens.
XX
PN  WO2003070972-A2.
XX
PD  28-AUG-2003.
XX
PF  20-FEB-2003; 2003WO-US005234.
XX
PR  20-FEB-2002; 2002US-0358580P.
PR  11-MAR-2002; 2002US-0363124P.
PR  06-JUN-2002; 2002US-0386782P.
PR  15-AUG-2002; 2002US-0404039P.
PR  29-AUG-2002; 2002US-0406784P.
PR  05-SEP-2002; 2002US-0408378P.
PR  09-SEP-2002; 2002US-0409293P.
PR  14-JAN-2003; 2003US-0439922P.
PR  15-JAN-2003; 2003US-0440129P.
XX
PA  (RIBO-) RIBOZYME PHARM INC.
XX
PI  Mcswiggen J, Beigelman L, Chowrira B;
XX
DR  WPI; 2003-679889/64.
XX
PT  New double-stranded interfering nucleic acid, useful e.g. for treatment
PT  and diagnosis of leukemia and lymphoma, downregulates the breakpoint
PT  cluster region-Abelson (BCR-ABL) gene.
XX
PS  Example 7; SEQ ID NO 1085; 197pp; English.
XX
CC  The invention relates to a novel double-stranded short interfering
CC  nucleic acid (siRNA) that downregulates expression of the breakpoint
CC  cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1
CC  (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic
CC  activity and may be useful for modulating expression of the BCR-ABL gene,
CC  as well as for treating leukaemia or lymphoma and in diagnosis, drug
CC  screening, target identification and validation, genetic engineering,
CC  gene function studies and gene mapping. The current sequence is that of
CC  the human ABL1-targeted siRNA of the invention.
XX
SQ  Sequence 19 BP; 5 A; 5 C; 8 G; 0 T; 1 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 19;
Best Local Similarity 82.4%; Pred. No. 9.8e+02;
Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

Qy  361 GGGGAGAGTGACCGGC 377
|||
Db  2 GGGCAGAGUGACCGGC 18

RESULT 1456
ADF84308
ID  ADF84308 standard; RNA; 19 BP.
XX
AC  ADF84308;
XX
DT  26-FEB-2004 (first entry)
XX
DE  Human ABL1-targeted siRNA - SEQ ID 602.
XX
KW  short interfering nucleic acid; siRNA; breakpoint cluster region;
KW  v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL;
```

KW cytostatic; leukaemia; lymphoma; human; ss; siRNA; ABL1.  
 XX Homo sapiens.  
 OS WO2003070972-A2.  
 XX 28-AUG-2003.  
 XX PD  
 XX PF 20-FEB-2003; 2003WO-US005234.  
 XX PR 20-FEB-2002; 2002US-0358580P.  
 PR 11-MAR-2002; 2002US-0363124P.  
 PR 06-JUN-2002; 2002US-0386782P.  
 PR 15-AUG-2002; 2002US-0404039P.  
 PR 29-AUG-2002; 2002US-0406784P.  
 PR 05-SEP-2002; 2002US-0408378P.  
 PR 09-SEP-2002; 2002US-0409293P.  
 PR 14-JAN-2003; 2003US-0439922P.  
 PR 15-JAN-2003; 2003US-0440129P.  
 XX PA (RIBO-) RIBOZYME PHARM INC.  
 XX PI Mcswiggen J, Beigelman L, Chowrira B;  
 XX WPI; 2003-679889/64.  
 XX DR New double-stranded interfering nucleic acid, useful e.g. for treatment  
 PT and diagnosis of leukemia and lymphoma, downregulates the breakpoint  
 PT cluster region-Abelson (BCR-ABL) gene.  
 XX Example 7; SEQ ID NO 602; 197pp; English.  
 XX CC The invention relates to a novel double-stranded short interfering  
 CC nucleic acid (siNA) that downregulates expression of the breakpoint  
 CC cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1  
 CC (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic  
 CC activity and may be useful for modulating expression of the BCR-ABL gene,  
 CC as well as for treating leukaemia or lymphoma and in diagnosis, drug  
 CC screening, target identification and validation, genetic engineering, of  
 CC gene function studies and gene mapping. The current sequence is that of  
 CC the human ABL1-targeted siRNA of the invention.  
 XX SQ Sequence 19 BP; 6 A; 4 C; 8 G; 0 T; 1 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 82.4%; Pred. No. 9.8e+02;  
 Matches 14; Conservative 1; Mismatches 2; Indels 0; Gaps 0;  
 QY 953 GCCACCGGCGAGAGGTG 969  
 Db 1 GCNACCGGCGAGGUG 17  
 RESULT 1457  
 ID ADF84472/c  
 XX ADF84472 standard; RNA; 19 BP.  
 XX AC ADF84472;  
 XX DT 26-FEB-2004 (first entry)  
 XX DE Human ABL1-targeted siRNA - SEQ ID 766.  
 XX KW short interfering nucleic acid; siNA; breakpoint cluster region;  
 KW v-abl Abelson murine leukaemia viral oncogene homologue 1; BCR-ABL;  
 KW cytostatic; leukaemia; lymphoma; human; ss; siRNA; ABL1.  
 XX OS Homo sapiens.  
 XX WO2003070972-A2.  
 XX PD 28-AUG-2003.  
 XX

PF 20-FEB-2003; 2003WO-US005234.  
 XX 20-FEB-2002; 2002US-0358580P.  
 PR 11-MAR-2002; 2002US-0363124P.  
 PR 06-JUN-2002; 2002US-0386782P.  
 PR 15-AUG-2002; 2002US-0404039P.  
 PR 29-AUG-2002; 2002US-0406784P.  
 PR 05-SEP-2002; 2002US-0408378P.  
 PR 09-SEP-2002; 2002US-0409293P.  
 PR 14-JAN-2003; 2003US-0439922P.  
 PR 15-JAN-2003; 2003US-0440129P.  
 XX PA (RIBO-) RIBOZYME PHARM INC.  
 XX PI Mcswiggen J, Beigelman L, Chowrira B;  
 XX WPI; 2003-679889/64.  
 XX DR New double-stranded interfering nucleic acid, useful e.g. for treatment  
 PT and diagnosis of leukemia and lymphoma, downregulates the breakpoint  
 PT cluster region-Abelson (BCR-ABL) gene.  
 XX Example 7; SEQ ID NO 766; 197pp; English.  
 XX CC The invention relates to a novel double-stranded short interfering  
 CC nucleic acid (siNA) that downregulates expression of the breakpoint  
 CC cluster region-v-abl Abelson murine leukaemia viral oncogene homologue 1  
 CC (BCR-ABL) gene. The siRNA of the invention demonstrates cytostatic  
 CC activity and may be useful for modulating expression of the BCR-ABL gene,  
 CC as well as for treating leukaemia or lymphoma and in diagnosis, drug  
 CC screening, target identification and validation, genetic engineering, of  
 CC gene function studies and gene mapping. The current sequence is that of  
 CC the human ABL1-targeted siRNA of the invention.  
 XX SQ Sequence 19 BP; 1 A; 8 C; 5 G; 0 T; 5 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 361 GGGGAGAGTGACGAGC 377  
 Db 18 GGGCAGAGTGACGAGC 2  
 RESULT 1458  
 ID ADM92922  
 XX ADM92922 standard; DNA; 19 BP.  
 XX AC ADM92922;  
 XX DT 03-JUN-2004 (first entry)  
 XX DE SNP-containing cardiovascular associated gene primer #253.  
 XX KW SNP; single nucleotide polymorphism; cardiovascular associated gene;  
 KW allelic variation; atherosclerosis; ischemia; reperfusion; hypertension;  
 KW restenosis; arterial inflammation; myocardial infarction; stroke; primer;  
 KW ss.  
 XX OS Homo sapiens.  
 XX PN WO2003057911-A2.  
 XX PD 17-JUL-2003.  
 XX PF 07-JAN-2003; 2003WO-EP000060.  
 XX PR 08-JAN-2002; 2002EP-00000153.  
 XX PA (FARB ) BAYER AG.  
 XX PI Stropp U, Schwes S, Kallabis H;

XX WPI; 2003-577532/54.  
XX  
XX New isolated polynucleotides comprising single nucleotide polymorphisms  
XX of the cardiovascular gene, useful for assessing predisposition or  
XX susceptibility to a cardiovascular disease, e.g. atherosclerosis,  
XX restenosis or stroke.  
XX  
XX Disclosure; Page 77; 187pp; English.  
XX  
XX The invention relates an isolated polynucleotide (I) encoded by a  
XX cardiovascular associated (CA) gene, having allelic variation contained  
XX in a functional surrounding like full length cDNA for CA gene  
XX polypeptide, and with or without the CA gene promoter sequence. (I) is a  
XX polynucleotide comprising single nucleotide polymorphisms predicting  
XX cardiovascular disease. The polynucleotides are useful for assessing  
XX predisposition or susceptibility to a cardiovascular disease, e.g.  
XX atherosclerosis, ischemia/reperfusion, hypertension, restenosis, arterial  
XX inflammation, myocardial infarction, and stroke. These may also be used  
XX to predict personal medication schemes omitting adverse drug reactions,  
XX or as probes for detecting genetic polymorphisms and as templates for the  
XX recombinant production of normal or variant peptides/polypeptides encoded  
XX by the genes. This sequence corresponds to a PCR primer to amplify one of  
XX the genes of the invention.  
XX  
XX Sequence 19 BP; 2 A; 10 C; 2 G; 5 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 306 CCCACTCAGCTCTGCAC 322  
Db 1 CCCACTCAGCTCTGCTC 17  
RESULT 1459  
ADH54705/c  
ID ADH54705 standard; DNA; 19 BP.  
XX  
XX AC ADH54705;  
XX  
XX 25-MAR-2004 (first entry)  
XX Human VEGF-C PCR primer #2.  
XX  
XX human; ss; PCR; VEGF-C; cardiovascular disorder; atherosclerosis;  
XX diabetic retinopathy; autoimmune disorder; inflammatory disorder;  
XX vascular endothelial growth factor; primer.  
XX  
XX Homo sapiens.  
XX  
XX US2003232437-A1.  
XX  
XX 18-DEC-2003.  
XX  
XX 17-JUN-2002; 2002US-00173718.  
XX  
XX 17-JUN-2002; 2002US-00173718.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Zhang H, Dobie KW;  
XX  
XX WPI; 2004-061284/06.  
XX  
XX New compounds, particularly antisense oligonucleotides targeted to a  
XX nucleic acid encoding vascular endothelial growth factor-C (VEGF-C),  
XX useful for treating atherosclerosis, diabetic retinopathy, or  
XX inflammatory disorders.  
XX  
XX Example 13; SEQ ID NO 6; 83pp; English.

XX The invention relates to a compound targeted to and which specifically  
XX hybridizes with a nucleic acid molecule encoding VEGF-C, and inhibits the  
XX expression of VEGF-C. The compound, composition and methods are useful  
XX for treating a disease or condition associated with VEGF-C, such as a  
XX cardiovascular disorder e.g. atherosclerosis or diabetic retinopathy or  
XX an autoimmune or inflammatory disorder. They are also useful in research  
XX and diagnostics for modulating the expression of VEGF-C. The present  
XX sequence represents a human VEGF-C PCR primer.  
XX  
XX Sequence 19 BP; 3 A; 6 C; 5 G; 5 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 13.8; DB 1; Length 19;  
Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1563 GATGCTCAGCTCAGGCA 1579  
Db 17 GATGCTCAGCTCAGGAA 1  
RESULT 1460  
AD017050  
ID AD017050 standard; DNA; 19 BP.  
XX  
XX AC AD017050;  
XX  
XX 01-JUL-2004 (first entry)  
XX Human LIPIN3 exon14 PCR primer seqid 42.  
XX  
XX LIPIN3; obesity; obesity-related disorder; differential expression;  
XX polynucleotide polymorphism; adipocyte; human; PCR; primer; ss.  
XX  
XX Homo sapiens.  
XX  
XX US2004018497-A1.  
XX  
XX 29-JAN-2004.  
XX  
XX 26-JUL-2002; 2002US-00206618.  
XX  
XX 26-JUL-2002; 2002US-00206618.  
XX (WARD/) WARDEN C H.  
XX  
XX Warden CH;  
XX  
XX WPI; 2004-122019/12.  
XX  
XX Novel isolated LIPIN3 polypeptide, useful for diagnosing diabetes.  
XX  
XX Example 5; SEQ ID NO 41; 58pp; English.  
XX  
XX The invention describes an isolated polypeptide (I) comprising a  
XX polypeptide having a fully defined LIPIN3 sequence (S1) of 806 amino  
XX acids as given in the specification or a region consisting of 5 or more  
XX contiguous amino acids, where the region includes amino acid of 634 of  
XX (S1). Also described are: an isolated polynucleotide (II) comprising a  
XX fully defined sequence (S2) of 2405 base pair as given in the  
XX specification, or its complement, a polynucleotide that selectively  
XX hybridizes to (S2) relative to a known polynucleotide, or a region of 15  
XX or more contiguous nucleotides, the region comprising nucleotide 1904 of  
XX (S2); vector, preferably an expression vector (III) comprising (II); a  
XX host cell (IV) comprising (II); detecting (M1) differential expression of  
XX a LIPIN3 polynucleotide in a test sample; detecting obesity or obesity-  
XX related disorders associated with differential expression of a LIPIN3  
XX polynucleotide comprising a detecting a level of expression of (V), or  
XX (VI), or a region of (V) or (VI), where the region is 10 or more  
XX nucleotides in length; screening (M2) for agents that reduce the  
XX expression of a (II) in a test cell sample; antibodies that specifically  
XX bind to (I); a recombinant cell comprising a recombinantly modified (II),  
XX such that the (II) is overexpressed; a composition comprising (I); an  
XX array comprising two or more (II); and identifying an alteration in

CC LIPIN3 gene associated with obesity or an obesity related disorder. (II)  
 CC is useful for detecting a polynucleotide polymorphism associated with  
 CC obesity. (II) is useful for diagnosing obesity an obesity-related  
 CC disorder which involves detecting (I). In (M2), the cell is an adipocyte.  
 CC The test agent is chosen from antibody, protein, nucleic acid, and small  
 CC organic molecule. This sequence represents a primer used to identify  
 CC single nucleotide polymorphisms in the human Lipin3 gene that may be  
 CC associated with obesity.

XX Sequence 19 BP; 5 A; 9 C; 2 G; 3 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1383 CGACTCTCTCACCAGC 1399  
 Db 3 CGACCATTTCACCAGC 19

RESULT 1461  
 ADQ60589/c  
 ID ADQ60589 standard; RNA; 19 BP.

XX AC ADQ60589;

XX DT 09-SEP-2004 (first entry)

XX DE Anti-Firefly luciferase siRNA Luc 78 SEQ ID NO:288.

XX ss; siRNA; gene silencing; Bcl-2; optimised; short interfering RNA;  
 KW RNA interference; firefly; luciferase.

XX OS Synthetic.

XX PN WO2004045543-A2.

XX PD 03-JUN-2004.

XX PF 14-NOV-2003; 2003WO-US036787.

XX PR 14-NOV-2002; 2002US-0426137P.

XX PR 10-SEP-2003; 2003US-0502050P.

XX PA (DHAR-) DHARMA CON INC.

XX PI Anastasia K, Angela R, Devin L, William M, Stephen S;

XX DR WPI; 2004-420527/39.

PT Selecting siRNA by selecting an siRNA molecule of 19-25 nucleoside bases  
 PT by selecting a target gene and measuring the functionality of the  
 PT nucleotide sequences that are complementary to a stretch of nucleotides  
 PT of the target sequence.

XX Example 1; SEQ ID NO 288; 199pp; English.

XX The invention relates to a novel method for selecting siRNA (short  
 CC interfering RNA) comprising selecting an siRNA molecule of 19-25  
 CC nucleoside bases by selecting a target gene and measuring the  
 CC functionality of sequences of 19-25 nucleotides in length that are  
 CC substantially complementary to a stretch of nucleotides of the target  
 CC sequence, where the functionality is dependent upon non-target specific  
 CC criteria. Also claimed are methods for gene-silencing, developing an  
 CC siRNA algorithm for selecting siRNA, selecting an siRNA with improved  
 CC functionality, selecting hyperfunctional siRNA, an siRNA molecule  
 CC effective at silencing Bcl-2, and a kit for gene silencing comprising the  
 CC siRNA. The siRNA molecule comprises a sequence substantially similar to a  
 CC sequence consisting of GGAGAUAGUGAUGAUGA; GAAGUACUCCAUUAUAG;  
 CC GUACGACACCGGAGUA; AGAUGAUGAUGAUGAUGA; GAGAUAGUGAUGAUGAUGA;  
 CC CAUGGCGGCUUGUUGA; UCGGCGGCUUGUUGAUGAUGA; GAGAUAGUGAUGAUGAUGA;  
 CC GGAGAUAGUGAUGAUGAUGA; and GAAGACUUGCUUGAUGAUGAUGA. The siRNA molecule  
 CC comprises a sense strand and an anti-sense strand. The siRNA molecule

CC comprises a hairpin. The siRNA molecule comprises between 18 and 30 base  
 CC pairs. The kit comprises at least two siRNA, comprising a first optimised  
 CC siRNA and a second optimised siRNA. The method is useful in selecting  
 CC siRNA for generating a gene silencing reagent. The present sequence is  
 CC used in the exemplification of the invention.

XX Sequence 19 BP; 6 A; 3 C; 7 G; 0 T; 3 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;  
 Best Local Similarity 88.2%; Pred. No. 9.8e+02;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1203 CCTCTTTCCGGCTCCA 1219  
 Db 19 CGTCTTTCCGGCTCCA 3

RESULT 1462  
 ADQ60588/c  
 ID ADQ60588 standard; RNA; 19 BP.

XX AC ADQ60588;

XX DT 09-SEP-2004 (first entry)

XX DE Anti-Firefly luciferase siRNA Luc 77 SEQ ID NO:287.

XX ss; siRNA; gene silencing; Bcl-2; optimised; short interfering RNA;  
 KW RNA interference; firefly; luciferase.

XX OS Synthetic.

XX PN WO2004045543-A2.

XX PD 03-JUN-2004.

XX PF 14-NOV-2003; 2003WO-US036787.

XX PR 14-NOV-2002; 2002US-0426137P.

XX PR 10-SEP-2003; 2003US-0502050P.

XX PA (DHAR-) DHARMA CON INC.

XX PI Anastasia K, Angela R, Devin L, William M, Stephen S;

XX DR WPI; 2004-420527/39.

PT Selecting siRNA by selecting an siRNA molecule of 19-25 nucleoside bases  
 PT by selecting a target gene and measuring the functionality of the  
 PT nucleotide sequences that are complementary to a stretch of nucleotides  
 PT of the target sequence.

XX Example 1; SEQ ID NO 287; 199pp; English.

XX The invention relates to a novel method for selecting siRNA (short  
 CC interfering RNA) comprising selecting an siRNA molecule of 19-25  
 CC nucleoside bases by selecting a target gene and measuring the  
 CC functionality of sequences of 19-25 nucleotides in length that are  
 CC substantially complementary to a stretch of nucleotides of the target  
 CC sequence, where the functionality is dependent upon non-target specific  
 CC criteria. Also claimed are methods for gene-silencing, developing an  
 CC siRNA algorithm for selecting siRNA, selecting an siRNA with improved  
 CC functionality, selecting hyperfunctional siRNA, an siRNA molecule  
 CC effective at silencing Bcl-2, and a kit for gene silencing comprising the  
 CC siRNA. The siRNA molecule comprises a sequence substantially similar to a  
 CC sequence consisting of GGAGAUAGUGAUGAUGA; GAAGUACUCCAUUAUAG;  
 CC GUACGACACCGGAGUA; AGAUGAUGAUGAUGAUGA; GAGAUAGUGAUGAUGAUGA;  
 CC CAUGGCGGCUUGUUGA; UCGGCGGCUUGUUGAUGAUGA; GAGAUAGUGAUGAUGAUGA;  
 CC GGAGAUAGUGAUGAUGAUGA; and GAAGACUUGCUUGAUGAUGAUGA. The siRNA molecule  
 CC comprises a sense strand and an anti-sense strand. The siRNA molecule  
 CC comprises a hairpin. The siRNA molecule comprises between 18 and 30 base  
 CC pairs. The kit comprises at least two siRNA, comprising a first optimised  
 CC siRNA and a second optimised siRNA. The method is useful in selecting

CC siRNA for generating a gene silencing reagent. The present sequence is  
CC used in the exemplification of the invention.

SQ Sequence 19 BP; 7 A; 3 C; 7 G; 0 T; 2 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 19;

Best Local Similarity 88.2%; Pred. No. 9.8e+02;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1203 CCTCTTCCGGCTCCA 1219

Db 17 CGTCTTCCGGCTCCA 1

RESULT 1463

AAQ15432/c

ID AAQ15432 standard; RNA; 20 BP.

XX AC AAQ15432;

DT 21-APR-1994 (first entry)

DE HPV-16 control primer dT1.

XX Human papillomavirus; amplification; primer; polymerase chain reaction;

KW PCR; ss.

OS Synthetic.

FN EP415755-A.

XX 06-MAR-1991.

XX 30-AUG-1990; 90EP-00309492.

XX 01-SEP-1989; 89US-00401840.

XX (LIFE-) LIFE TECHN INC.

XX WPI; 1991-067289/10.

XX Avoiding contamination during nucleic acid amplification - using

PT oligo:nucleotide primer contg. unnatural base which can be selectively

PT rendered incapable of further amplification.

XX Example 1; Pag 7; 10pp; English.

CC Example 1 describes the amplification of HPV-16 DNA by PCR using the

CC primers given in AAQ15430-31 or AAQ15432-33

XX Sequence 20 BP; 2 A; 2 C; 7 G; 9 T; 0 U; 0 Other;

QY 1308 CAAGACATACACTACC 1324

Db 17 CAAGACATACACTACC 1

RESULT 1464

AAQ15430/c

ID AAQ15430 standard; RNA; 20 BP.

XX AC AAQ15430;

DT 21-APR-1994 (first entry)

XX HPV-16 primer dU1.

XX Human papillomavirus; amplification; primer; polymerase chain reaction;

KW PCR; ss.

XX OS Synthetic.

XX PN EP415755-A.

XX 06-MAR-1991.

XX 30-AUG-1990; 90EP-00309492.

XX 01-SEP-1989; 89US-00401840.

XX (LIFE-) LIFE TECHN INC.

XX WPI; 1991-067289/10.

XX Avoiding contamination during nucleic acid amplification - using

PT oligo:nucleotide primer contg. unnatural base which can be selectively

PT rendered incapable of further amplification.

XX Example 1; Pag 7; 10pp; English.

XX Example 1 describes the amplification of HPV-16 DNA by PCR using the

CC primers given in AAQ15430-31 or AAQ15432-33

XX Sequence 20 BP; 2 A; 2 C; 7 G; 0 T; 9 U; 0 Other;

QY 1308 CAAGACATACACTACC 1324

Db 17 CAAGACATACACTACC 1

RESULT 1465

AAQ58627

ID AAQ58627 standard; DNA; 20 BP.

XX AC AAQ58627;

XX 25-MAR-2003 (revised)

XX 25-APR-1994 (first entry)

XX HPV-6 probe.

XX Human papillomavirus; HPV; amplification; primer;

KW polymerase chain reaction; PCR; antibody; assay; nitrocellulose filter;

ss.

XX Synthetic.

XX FR2660925-A.

XX 18-OCT-1991.

XX 11-APR-1990; 90FR-00004659.

XX 11-APR-1990; 90FR-00004659.

XX (INRM ) INSERM INST NAT SANTE & RECH MED.

XX Tchen P, Vautherot JF;

XX WPI; 1992-001368/01.

XX Fixing nucleotide sequence to solid support, e.g. nylon filter - using

PT antibody specific for substit. on the sequence as intermediate protein,

PT useful e.g. in pathogen typing.

XX Disclosure; Page 14; 20pp; French.

XX The use of probes fixed by antibodies to nitrocellulose filters was

CC

CC exemplified in an assay for HPV. The probes are given in AAQ58627-  
 CC AAQ58630 and the primers are given in AAQ58631-Q58634. (Updated on 25-MAR  
 CC -2003 to correct PA field.)  
 XX  
 SQ Sequence 20 BP; 5 A; 8 C; 1 G; 6 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1677 CCCCAACTACATCTTCC 1693  
 DB 4 CCGTAACTACATCTTCC 20  
 RESULT 1466  
 AAQ34599/c  
 ID AAQ34599 standard; DNA; 20 BP.  
 XX  
 AC AAQ34599;  
 XX  
 XX 25-MAR-2003 (revised)  
 DT 10-MAY-1993 (first entry)  
 XX  
 DE Human papilloma virus type 16 PCR primer.  
 XX  
 KW Polymerase chain reaction; HPV 16; amplification; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN EP522884-A1.  
 XX  
 PD 13-JAN-1993.  
 XX  
 PF 13-JUL-1992; 92BP-00306396.  
 XX  
 PR 12-JUL-1991; 91US-00728874.  
 XX  
 PA (LIFE-) LIFE TECHNOLOGIES INC.  
 XX  
 PI Hartley JL, Berninger M;  
 XX  
 DR WPI; 1993-010692/02.  
 XX  
 PT Oligo:nucleotide-dependent amplification for controlling contamination of  
 XX prod - by incorporating an exo-sample nucleotide into products.  
 XX  
 PS Example; Page 10; 18pp; English.  
 XX  
 CC The sequence is that of a PCR primer used in the amplification of a  
 CC region of the human papilloma virus type 16 (HPV 16) DNA. (Updated on 25-  
 CC MAR-2003 to correct PN field.)  
 XX  
 SQ Sequence 20 BP; 2 A; 2 C; 7 G; 9 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1308 CAAGACATACACTACC 1324  
 DB 17 CAAGACATACATCGACC 1  
 RESULT 1467  
 AAQ34982/c  
 ID AAQ34982 standard; DNA; 20 BP.  
 XX  
 AC AAQ34982;  
 XX  
 XX 25-MAR-2003 (revised)  
 DT 26-MAY-1993 (first entry)  
 XX

DE PCR primer PV3(5').  
 XX  
 KW Amplification; cervical cancer; HPV-16; human papillomavirus; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN EP524808-A2.  
 XX  
 PD 27-JAN-1993.  
 XX  
 PF 22-JUL-1992; 92EP-00306701.  
 XX  
 PR 23-JUL-1991; 91US-00733419.  
 XX  
 PA (HOFF) HOFFMANN LA ROCHE & CO AG F.  
 PA (UANY) UNIV NEW YORK STATE RES FOUND.  
 XX  
 PI Bloch W, Nuovo GU;  
 XX  
 DR WPI; 1993-028856/04.  
 XX  
 PT Compens. for in situ polymerase chain reaction on fixed cells - involves  
 PT preventing reaction until start of thermal cycling, and providing higher  
 PT sensitivity and selectivity.  
 XX  
 PS Example 1; Page 10; 14pp; English.  
 XX  
 CC The PCR primer PV3(5') correspond to an oligomer starting at nucleotide  
 CC 501 of human papillomavirus type 16. The primer is used to demonstrate a  
 CC novel in situ PCR method comprising fixed cells, a subset of PCR reagents  
 CC and opt. a binding protein for single stranded DNA, or fixed cells, a  
 CC complete set of PCR reagents and the binding protein. The method is used  
 CC to perform PCR on cells present in histochemical sections or cytochemical  
 CC smears, e.g. for biological, forensic or pathological studies. The primer  
 CC was one of a pair used to amplify papillomavirus DNA from human cervical  
 CC cancer cells SiHa. A 449 bp PCR prod. was obtd. by this method whereas  
 CC multiple primer pairs were needed for the same result using conventional  
 CC PCR methods. See also AAQ34980-6. (Updated on 25-MAR-2003 to correct PN  
 CC field.)  
 XX  
 SQ Sequence 20 BP; 2 A; 4 C; 6 G; 8 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1308 CAAGACATACACTACC 1324  
 DB 19 CAAGACATACATCGACC 3  
 RESULT 1468  
 AAQ44798/c  
 ID AAQ44798 standard; DNA; 20 BP.  
 XX  
 AC AAQ44798;  
 XX  
 XX 25-MAR-2003 (revised)  
 DT 29-SEP-1994 (first entry)  
 XX  
 DE HPV16/pt713 primer.  
 XX  
 KW N4-methyl-cytidine; N4-methyl-deoxycytidine; triphosphate; CTP; dCTP;  
 KW substrate; polymerase; cytosine; oligonucleotide; polynucleotide;  
 KW sequence analysis; primer extension reaction; PCR;  
 KW polymerase chain reaction; amplification.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9405684-A1.  
 XX  
 PD 17-MAR-1994.  
 XX

PF 30-AUG-1993; 93WO-US008145.  
 PR 04-SEP-1992; 92US-00941370.  
 XX (LIFE-) LIFE TECHNOLOGIES INC.  
 FA Pless RC;  
 XX WPI; 1994-101109/12.  
 DR New N4-alkyl-(deoxy)cytidine 5'-tri-phosphate cpds. - useful in DNA  
 PT sequence analysis, primer extension reactions and nucleic acid  
 PT amplification.  
 XX Disclosure; Page 12; 40pp; English.  
 PS  
 XX Cpd's. N4-(1-4C alkyl) cytidine 5'-triphosphate (I) and N4-(1-4C alkyl)-2'  
 CC -deoxycytidine 5'-triphosphate (II) are new. (i) and (ii) serve as  
 CC substrates for RNA and DNA polymerases for incorporation of the N4-(1-4C  
 CC alkyl)-cytosine moiety into oligo- and polynucleotides. They can be used  
 CC in DNA sequence analysis, primer extension reactions and nucleic acid  
 CC amplification. To assess the potential for using N4-methyl-dCTP in PCR  
 CC amplification, reaction mixts. contg. the canonical nucleotide set were  
 CC compared to mixts. in which dCTP was replaced by the N4- methylcytosine  
 CC analogue, in a PCR experiment designed to amplify a 293 bp sequence of  
 CC Hpv16 DNA. Using a high-temp. regimen the desired fragment was obtained  
 CC with the canonical dNTPs, but not with N4-methyl-dCTP. A low-temp.  
 CC regimen, conducted with dCTP or with N4-methyl-dCTP in the reaction  
 CC mixt., cleanly produced identical amts. of the expected fragment as the  
 CC sole amplification product. (Updated on 25-MAR-2003 to correct PN field.)  
 XX  
 SQ Sequence 20 BP; 2 A; 2 C; 7 G; 9 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; DB 1; Length 20;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1308 CAACACATACACATCAC 1324  
 DB 17 CAACACATACATCGACC 1  
 RESULT 1469  
 AAT05336/C  
 ID AAT05336 standard; cDNA; 20 BP.  
 XX AAT05336;  
 AC AAT05336;  
 XX 31-JAN-1996 (first entry)  
 DT Peptide transport gene atptr2a PCR primer.  
 DE Peptide transport gene atptr2a PCR primer.  
 XX Peptide transport gene, atptr2a; disease-resistance; fungus-resistance;  
 KW insect-resistance; pathogen-resistance; herbicide-resistance;  
 KW transgenic plant; crop improvement; polymerase chain reaction; primer;  
 KW RT-PCR; ss.  
 XX Arabidopsis thaliana.  
 OS Arabidopsis thaliana.  
 XX WO9525114-A1.  
 PN 21-SEP-1995.  
 PD 10-MAR-1995; 95WO-US002708.  
 XX 16-MAR-1994; 94US-00212188.  
 PR (UVTE-) UNIV TENNESSEE RES CORP.  
 PA Becker JM, Stacey G;  
 FI WPI; 1995-336935/43.  
 DR WPI; 1995-336935/43.  
 XX

PT Plant peptide transport genes - used to increase plant resistance to  
 PT herbicidal peptide(s), pref. those produced by a plant pathogen.  
 XX Example 8; Page 40; 79pp; English.  
 XX An upstream primer (AAT05336) starting at base 1975 of the Arabidopsis  
 CC thaliana peptide transport atptr2a gene (see AAT05334) and a downstream  
 CC primer (AAT05337) starting at base 2528 were used in RT-PCR to measure  
 CC the extent of APT2A transcription in plant tissue. A 569 bp fragment of  
 CC the atptr2a open reading frame is generated  
 XX Sequence 20 BP; 3 A; 6 C; 4 G; 7 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; DB 1; Length 20;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 6 GCAGCGTAAGGATGGA 22  
 DB 20 GCAGCGTAATCATGGA 4  
 RESULT 1470  
 AAT11661  
 ID AAT11661 standard; DNA; 20 BP.  
 XX AAT11661;  
 AC AAT11661;  
 XX 16-JAN-1997 (first entry)  
 DT Primer for amplifying pigment epithelium-derived factor fragment.  
 DE Pigment epithelium-derived factor; PEDF; neuronal cells; neurons;  
 KW glial cells; gliastatic; gliosis; central nervous system; CNS;  
 KW neurodegenerative disease; injury; neurotrophic; brain cells;  
 KW Parkinson's disease; photoreceptor cells; retina; inhibition;  
 KW proliferation; immunoassay; antibody; ageing; degenerative disease; ss.  
 XX Synthetic.  
 OS Synthetic.  
 XX WO9533480-A1.  
 PN 14-DEC-1995.  
 PD 06-JUN-1995; 95WO-US007201.  
 XX 07-JUN-1994; 94US-00257963.  
 PR 30-DEC-1994; 94US-00367841.  
 XX (USSH) US DEPT HEALTH & HUMAN SERVICES.  
 PA Chader GJ, Becerra SP, Schwartz JP, Taniwaki T;  
 FI WPI; 1996-033966/04.  
 DR Use of pigment epithelium derived factor - for enhancing neuronal cell  
 PT survival and inhibiting glial cell proliferation, useful, e.g. in CNS  
 PT cell culture or to treat neuro-degenerative diseases.  
 XX Example 8; Page 38; 151pp; English.  
 PS Pigment epithelium-derived factor (PEDF) has both neurotrophic and  
 CC gliastatic activity, making it useful in cases where neurons die quickly  
 CC and glia tend to proliferate (gliosis), e.g. in CNS cell culture, in  
 CC neurodegenerative diseases and in CNS injury. The neurotrophic effect  
 CC of PEDF is especially useful for enhancing survival of neuronal cell  
 CC cultures intended for use in transplantation. These include cultures of  
 CC human foetal brain cells and neural retina and photoreceptor cells. The  
 CC gliastatic activity of PEDF can be applied to inhibiting glial cell  
 CC proliferation in certain tumours. Antibodies directed against PEDF can be  
 CC used for inhibiting PEDF activity or in an immunoassay for determining  
 CC levels of PEDF in fluid, cellular or tissue samples e.g. for determining  
 CC ageing and/or other degenerative diseases. Eight primers (AAT11661-68)

CC were synthesised base on the cDNA sequence of PEDF and used to amplify  
 CC fragments of the PEDF gene for later sequencing. Two primers (AAT11661,  
 CC AAT11662) were used to amplify a 2 kilobase fragment from exon 3 to exon  
 CC 5 of PEDF  
 XX  
 SQ Sequence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1631 CCAGGCGGCGGCTG 1647  
 Db 2 CAAGCTGGCAGCGGCTG 18  
 RESULT 1471  
 ID AAT78983/c  
 ID AAT78983 standard; DNA; 20 BP.  
 XX AAT78983;  
 DT 13-JAN-1998 (first entry)  
 XX Mouse Huntington's disease gene exon 5 primer P586.  
 DE Huntington's disease; animal model; transgenic animal; mouse; therapy;  
 XX drug screening; mhd gene; polymerase chain reaction; PCR; primer; ss.  
 KW Synthetic.  
 OS  
 XX CA2178022-A.  
 XX 02-DEC-1996.  
 XX 03-JUN-1996; 96CA-02178022.  
 XX 01-JUN-1995; 95US-00457273.  
 XX (UYBR-) UNIV BRITISH COLUMBIA.  
 XX Hayden M, Lin B, Nasir J;  
 XX WPI; 1997-298677/28.  
 XX Mouse Huntington's Disease gene - useful for generating transgenic mice  
 PT as a model of Huntington's Disease.  
 PS Example 5; Page 31; 69pp; English.  
 XX Neo-specific primer P8, (AAT78982), primer P586 (AAT78983) derived from  
 CC exon 5 of the mouse Huntington's disease (HD) gene (see AAT78974), and  
 CC primer P9 (AAT78984) derived from intron 5 of the gene were used in the  
 CC genotype analysis of heterozygous transgenic mice embryos carrying a  
 CC targeted mutation in exon 5. The results indicated that loss of function  
 CC of the endogenous Hdh gene resulted in embryonic lethality during early  
 CC post-implantation development. Transgenic mice can be used as models of  
 CC HD  
 XX Sequence 20 BP; 1 A; 5 C; 7 G; 7 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1666 CACAGGGCAGCCCCCA 1682  
 Db 20 CACAGGGCAGCAGCAA 4  
 RESULT 1472  
 ID AAV03721  
 ID AAV03721 standard; DNA; 20 BP.

XX AAV03721;  
 AC 15-APR-1998 (first entry)  
 DT Primer SHR-16 for H chain of Fas specific antibody coding sequence.  
 XX  
 DE Fas; antibody; human; immunoglobulin; variable region; rheumatism;  
 XX autoimmune disease; rheumatoid arthritis; therapy; CDR; heavy chain;  
 KW complementarity determining region; PCR primer; amplify; ss.  
 XX Synthetic.  
 OS Mus sp.  
 XX EP799891-A1.  
 XX 08-OCT-1997.  
 XX 27-MAR-1997; 97EP-00302415.  
 XX 01-APR-1996; 96JP-00078570.  
 XX (SANY ) SANKYO CO LTD.  
 XX Serizawa N, Ichikawa K, Nakahara K, Yonehara S;  
 XX WPI; 1997-482673/45.  
 XX Anti-Fas recombinant antibodies - useful for treating auto-immune  
 PT diseases, especially rheumatoid arthritis.  
 PS Example 4; Page 16; 72pp; English.  
 XX This sequence represents a primer for the coding sequence for the protein  
 CC of the invention. The protein of the invention is a recombinant protein  
 CC (A), that comprises at least one region corresponding to an  
 CC immunoglobulin (Ig) variable region which enables the protein to  
 CC recognise and specifically bind to an antigen, preferably human Fas, and  
 CC has substantially no more immunogenicity in a human patient than a human  
 CC antibody. The proteins are useful for treating autoimmune diseases,  
 CC especially rheumatism (rheumatoid arthritis). (A) is based on a murine  
 CC monoclonal antibody. As the protein lacks the constant region, it has  
 CC substantially no more immunogenicity in the human patient than a human  
 CC antibody  
 XX Sequence 20 BP; 2 A; 8 C; 2 G; 8 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1452 TCATTCCTCCCTCAGTC 1468  
 Db 4 TCATTCCTCCCTCAGTC 20  
 RESULT 1473  
 ID AAT47350/c  
 ID AAT47350 standard; DNA; 20 BP.  
 XX AAT47350;  
 XX 10-SEP-1997 (first entry)  
 DT Variant #6 of universal primer sequence for M13mp18.  
 XX PCR; primer; amplify; polymerase chain reaction; bacteriophage; M13mp18;  
 KW cystic fibrosis transmembrane conductance regulator gene; multiplex PCR;  
 KW chimeric primer; genetic screening; mutation detection; CFTR;  
 KW Wilms Tumour gene; beta-thalassaemia gene; ss.  
 XX Synthetic.  
 OS



```
PN WO9641012-A1.
XX 19-DEC-1996.
PD
XX
XX 06-JUN-1996; 96WO-US009637.
XX
XX 07-JUN-1995; 95US-00474450.
XX
XX (GENZ ) GENZYME CORP.
PA
XX
XX Shuber AP;
PI
XX WPI; 1997-052372/05.
DR
XX
XX Universal primer used for multiplex DNA amplification - allows
PT simultaneous amplification of multiple DNA target sequences for high
PT through-put genetic screening.
XX
XX Claim 8; Page 10; 38pp; English.
XX
XX AAT47345-T47374 represent variants of a universal primer sequence (see
CC AAT47344) derived from the bacteriophage vector M13mpl8. This sequence
CC can be used as half of the DNA primer of the invention. The primers are
CC used for amplification of a target DNA sequence, and can be used in a
CC multiplex PCR amplification. The primers have the sequence 5'-XY-3',
CC where X is a sequence that does not hybridise to the target sequence
CC (such as this sequence), and Y is a sequence contained within or flanking
CC the target sequence. The melting temperature of a hybrid between X and
CC its complement (in the absence of other sequences) is 60 degrees C.
CC During early cycles of amplification, products are synthesised that
CC contain the chimeric primers on either end. The primers then serve as
CC high stringency recognition sequences for subsequent rounds of
CC amplification. As a result, the annealing efficiency of different primers
CC and their targets in a multiplex amplification reaction is normalised,
CC thereby reducing preferential amplification of certain targets. The
CC chimeric primer comprise a 5' universal domain and a 3' target-specific
CC domain. They are used for the simultaneous PCR amplification of multiple
CC DNA targets in a sample. The primer containing AAT47344 is particularly
CC useful in high-throughput genetic screening for detecting the presence of
CC multiple defined targets e.g. to detect mutations in genes like the
CC cystic fibrosis transmembrane conductance regulator (CFTR), the Wilms
CC Tumour, and the beta-thalassaemia genes
XX
XX Sequence 20 BP; 4 A; 5 C; 8 G; 3 T; 0 U; 0 Other;
SQ
```

```
XX 09-APR-1996; 96WO-EP001518.
PF
XX 09-APR-1996; 96WO-EP001518.
PR
XX (NOVS ) NOVARTIS AG.
PA
XX Fontana A, Constam D, Tobler AR, Altmann K, Schlappbach R;
XX WPI; 1997-512727/47.
DR
XX
XX Isolated protein with puromycin-sensitive aminopeptidase activity - which
PT may be used in treatment of proliferative disorders, including cancer and
PT psoriasis.
XX
XX Claim 36; Page 109; 141pp; English.
PS
XX
XX This antisense oligonucleotide is specifically hybridisable with selected
CC DNA or RNA deriving from the puromycin-sensitive aminopeptidase (PSA)-99.
CC This oligonucleotide is used for diagnosing conditions associated with PSA
CC expression. The human PSA-99 (875 amino acids) and the murine PSA-99 (920
CC amino acids) both exhibit PSA activity and can be used to generate anti-
CC PSA antibodies. Cell lines which produce the antibody and host cells
CC transfected with vector containing nucleic acid molecules encoding the
CC PSA and the oligonucleotides can be used in assays for identification of
CC agents which act by targeting PSA, for modulating PSA activity or
CC function. They can be used to influence proteolytic degradation of
CC endogenous PSA substrates, proliferation rate or viability of cells or to
CC induce apoptosis within cells by inhibiting PSA activity. Agents which
CC can diminish PSA activity in cells, by modulation of the amount of PSA in
CC cells due to modulation of PSA synthesis, may be used in treatment of
CC proliferative diseases, including tumours such as leukaemias and
CC carcinomas or epithelial disorders like psoriasis
XX
XX SQ Sequence 20 BP; 3 A; 7 C; 4 G; 6 T; 0 U; 0 Other;
SQ
```

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03; Indels 0; Gaps 0;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 179 GAGGCATAGACAGACC 195

|||||

18 GAGGGATAGACAGGCC 2

RESULT 1475

AAV33259/c

ID AAV33259 standard; DNA; 20 BP.

AC AAV33259;

DT 25-MAR-2003 (revised)

DT 07-DEC-1998 (first entry)

DE HPV type 16 gene amplifying 5' primer PV3.

KW Human papillomavirus; HPV; human; cervical cancer cell line; SiHa;  
KW thermal cycler sample compartment; veterinary; thermal conductivity;  
KW in situ PCR; nucleic acid detection; PCR primer; ss.

OS Synthetic.

OS Human papillomavirus.

PN EP863213-A1.

XX 09-SEP-1998.

XX 22-JUL-1992; 98EP-00200769.

XX 23-JUL-1991; 91US-00733419.

XX 22-JUL-1992; 92EP-00306701.

XX (HOFF ) HOFFMANN LA ROCHE & CO AG F.

PA (UJNY) UNIV NEW YORK STATE RES FOUND.  
 XX  
 PI Bloch W, Nuovo GU;  
 XX WPI; 1998-522852/45.  
 XX New thermal cyclor for in-situ PCR on microscope slides - and device for  
 PT protecting microscope slides from fluid or vapour.  
 XX  
 XX Example 1; Page 10; 16pp; English.  
 PS  
 XX Sequences shown in AAV33257 to AAV33263 represent primers used for the  
 CC PCR amplification of the human papillomavirus (HPV) type 16 genome  
 CC contained in the human cervical cancer cell line SiHa. The invention  
 CC provides a thermal cyclor sample compartment optimised for holding and  
 CC controlling the temperature of one or more microscopes which facilitates  
 CC thermal cycling. It also contains a device (barrier) for protecting a  
 CC microscope slide from fluid or vapour when the slide is sealed in the  
 CC device, comprising a plastics material that has high thermal  
 CC conductivity, and is impervious to fluid or vapour, and is dimensioned so  
 CC as to receive the slide. The new thermal cycling compartment is useful  
 CC for performing in situ PCR for detection of target nucleic acid sequences  
 CC directly from cells fixed onto a microscope slide, used in the field of  
 CC cell biology, forensic science and clinical, veterinary and plant  
 CC pathology. The modified heat blocks increase the speed and reliability of  
 CC in situ PCR performed on microscope slides by accelerating and rendering  
 CC more uniform the heat transfer which occurs during thermal cycling  
 CC (Updated on 25-MAR-2003 to correct PF field.) (Updated on 25-MAR-2003 to  
 CC correct PR field.)  
 XX  
 XX Sequence 20 BP; 2 A; 4 C; 6 G; 8 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1308 CAAGACATACACTACC 1324  
 DB 19 CAAGACATACACTGACC 3  
 RESULT 1476  
 AAV85967/c  
 ID AAV85967 standard; DNA; 20 BP.  
 XX  
 XX AAV85967;  
 XX  
 DT 10-FEB-1999 (first entry)  
 XX  
 DE Mouse LRP-3 cDNA PCR primer 378r (mulrp3 3r).  
 XX  
 KW LRP5; LDL-receptor related protein; LRP-3; IDDM; diagnosis; endocytosis;  
 KW insulin dependent diabetes mellitus; autoimmune disease;  
 KW glomerulonephritis; inflammation; viral infection; osteoporosis;  
 KW hypercholesterolemia; Alzheimer's disease; low density lipoprotein;  
 KW PCR primer; ss.  
 XX  
 XX Synthetic.  
 OS Mus sp.  
 XX  
 XX WO9846743-A1.  
 PN  
 XX 22-OCT-1998.  
 PD  
 XX 15-APR-1998; 98WO-GB001102.  
 PF  
 XX 15-APR-1997; 97US-0043553P.  
 PR 05-JUN-1997; 97US-0048740P.  
 XX  
 XX (WELL) WELLCOME TRUST LTD.  
 PA (MERI) MERCK & CO INC.  
 XX  
 XX Todd JA, Hess JW, Caskey CT, Cox RD, Gerhold D, Hammond H;  
 PI  
 Hey P, Kawaguchi Y, Merriman TR, Metzker ML, Nakagawa Y;  
 PI Phillips MS, Twells RCJ;  
 XX  
 DR WPI; 1998-594573/50.  
 XX  
 XX New isolated LDL-receptor related protein - used to develop products for  
 PT treating, e.g. elevated triglyceride levels, diabetes, autoimmune  
 PT disorders, inflammation or Alzheimer's disease.  
 XX  
 XX Claim 12; Page 117; 200pp; English.  
 PS  
 XX The present invention describes LRP5 (low density lipoprotein (LDL)  
 CC receptor related protein, previously designated LRP-3). Nucleic acid  
 CC molecules (NAs) encoding LRP5 can be used for determining if an  
 CC individual is susceptible to insulin dependent diabetes mellitus (IDDM).  
 CC The NAs or proteins can be used for reducing triglyceride levels in the  
 CC serum of an individual. Therapies that affect LRP5 may also be useful in  
 CC the treatment of autoimmune diseases such as glomerulonephritis, diseases  
 CC and disorders involving disruption of endocytosis and/or antigen  
 CC presentation, cytokine clearance and/or inflammation, viral infection,  
 CC pathogenic bacterial toxin contamination, elevation of free fatty acids  
 CC or hypercholesterolemia, type 2 diabetes, osteoporosis, Alzheimer's  
 CC disease and cardiovascular disease. Products from the present invention  
 CC can also be used for detection, diagnosis and drug screening. AAV85917 to  
 CC AAV86012 represent PCR primers for obtaining LRP-3 cDNA  
 XX  
 XX Sequence 20 BP; 1 A; 6 C; 5 G; 8 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1435 GAGGATGCCATGAAACA 1451  
 DB 20 GAGGAGGCCATCAACA 4  
 RESULT 1477  
 AAV43733/c  
 ID AAV43733 standard; DNA; 20 BP.  
 XX  
 XX AAV43733;  
 XX  
 DT 16-NOV-1998 (first entry)  
 XX  
 DE Cancer associated gene primer 2.  
 XX  
 KW ss; cancer; PCR; Northern blotting; ribonuclease protection assay;  
 KW diagnosis; metastatic cancer; primer; amplification.  
 XX  
 XX Synthetic.  
 OS  
 XX WO9837187-A1.  
 PN  
 XX 27-AUG-1998.  
 PD  
 XX 18-FEB-1998; 98WO-JP000667.  
 PF  
 XX 21-FEB-1997; 97JP-00052508.  
 PR  
 XX (TAKI) TAKARA SHUZO CO LTD.  
 PA  
 XX Yoshikawa Y, Mukai H, Asada K, Hino F, Kato I;  
 PI  
 XX WPI; 1998-467552/40.  
 DR  
 XX Detection of cancer cells in tissue samples - by changes in mRNA  
 PT expression compared to normal tissue of specific cancer-associated gene  
 PT sequences.  
 XX  
 XX Disclosure; Page 67; 92pp; Japanese.  
 PS  
 XX The primers AAV43732-V43776 were to produce cancer associated gene  
 XX

CC fragments which can be used to detect cancer cells in tissue samples or  
CC biological fluids. They are detected by monitoring the change in mRNA  
CC expression as compared to normal tissue of one or more cancer-associated  
CC genes whose cDNA stringently hybridises to the nucleic acid fragments.  
CC The change in expression may be an increase or a decrease compared to  
CC normal tissue. The mRNA expression may be determined by PCR, Northern  
CC blotting or ribonuclease protection assay, or by determining the change  
CC in the amount of protein encoded by the gene(s) as compared to normal  
CC tissue, for example by using a labelled antibody recognising the protein.  
CC Detection of cancer cells for cancer diagnosis, including detection of  
CC metastatic cancer cells in tissues other than the primary tumour site  
XX  
SQ Sequence 20 BP; 2 A; 2 C; 7 G; 9 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03; Length 20;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 1055 AGTCAATCCCAACAAAG 1071  
Db 17 AGTCACCCCAACAAAG 1

RESULT 1478  
AAV54679/c  
ID AAV54679 standard; DNA; 20 BP.  
XX  
AC AAV54679;  
XX  
DT 13-NOV-1998 (first entry)  
XX  
DE Human papillomavirus (HPV) gene amplifying primer PV3.  
XX  
KW Human papillomavirus; HPV; thermal cycling device; ceramic sample plate;  
KW biological sample; thermal sensor; heater; cooler; thermal cycling;  
KW rapid heat transfer; microscope slide; PCR amplification; hybridisation;  
KW target nucleic acid; PCR primer; ss.  
XX  
OS Synthetic.  
OS Human papillomavirus.  
XX  
FN WO9839479-A1.  
XX  
PD 11-SEP-1998.  
XX  
PF 03-MAR-1998; 98WO-US004041.  
XX  
PR 03-MAR-1997; 97US-00810641.  
XX  
PA (MINU ) UNIV MINNESOTA.  
XX  
PI Blumenfeld M, Chaplin J;  
XX  
DR WPI; 1998-495869/42.  
XX  
PT Thermal device for PCR amplification or hybridisation of target nucleic  
PT acid on microscope slide - has ceramic sample plate supporting flat  
PT substrate for sample and heater and cooler controlled to maintain or  
PT rapidly cycle temperature of sample.  
XX  
PS Example 2; Page 34; 58pp; English.  
XX  
CC Sequences shown in AAV54677 to AAV54683 represent primers used for the  
CC PCR amplification of the Human papillomavirus (HPV) gene contained in the  
CC human cervical cancer cell line SiHa. These are used in the course of the  
CC invention which provides a thermal cycling device comprising a ceramic  
CC sample plate. This device has a ceramic sample plate supporting a flat  
CC substrate carrying a biological sample and a thermal sensor, a heater  
CC thermally coupled to the plate and a cooler for the substrate. The device  
CC either maintains the temperature of the sample or subjects it to thermal  
CC cycling. The thin ceramic plate permits very rapid heat transfer to a  
CC sample on a microscope slide and this thermal cycling device can be used  
CC for PCR amplification or hybridisation of target nucleic acid on

CC microscope slide  
XX  
SQ Sequence 20 BP; 2 A; 4 C; 6 G; 8 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 1308 CAAGACATACACTACC 1324  
Db 19 CAAGACATACATCGACC 3  
RESULT 1479  
AAV69985  
ID AAV69985 standard; DNA; 20 BP.  
XX  
AC AAV69985;  
XX  
DT 04-FEB-1999 (first entry)  
XX  
DE Human c-jun protein antisense oligonucleotide #9.  
XX  
KW Human; c-fos; c-jun; activating protein 1; AP-1; diagnosis; metastasis;  
KW antisense oligonucleotide; phosphorothioate; regulation;  
KW malignant tumour; cell cycle expression; hyperproliferative disease; ss.  
XX  
OS Synthetic.  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /tag= a  
FT /note= "phosphorothioate linkages"  
XX  
FN WO9846272-A1.  
XX  
PD 22-OCT-1998.  
XX  
PF 14-APR-1998; 98WO-US007386.  
XX  
PR 14-APR-1997; 97US-00837201.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Dean NM, Mckay R, Miraglia L, Baker B;  
XX  
DR WPI; 1998-609906/51.  
XX  
PT Antisense oligonucleotides regulating Activating Protein 1 subunits -  
PT hybridise with c-fos and c-jun mRNA, used for regulating metastasis, cell  
PT cycle expression and hyperproliferative disease.  
XX  
PS Claim 12; Page 71; 120pp; English.  
XX  
CC AAV69978 to AAV69988 represent antisense oligonucleotides which are  
CC specifically hybridisable with a region of a nucleic acid encoding human  
CC c-Jun protein. The antisense compound regulates the expression of the c-  
CC Jun protein. The present invention also describes antisense  
CC oligonucleotides which regulate the c-Fos protein. The antisense  
CC oligonucleotides are used for the diagnosis and treatment of diseases or  
CC disorders associated with Activating Protein 1 expression, of which c-Fos  
CC and c-Jun are subunits. The antisense oligonucleotides are used in  
CC compositions as c-Fos and/or c-Jun together with a carrier and a  
CC chemotherapeutic agent. They are used to regulate the expression of c-Fos  
CC or c-Jun in cells or tissues, preferably by inhibiting metastasis. They  
CC also regulate cell cycle expression and can be used to treat an animal  
CC with, or being prone to, a hyperproliferative disease  
XX  
SQ Sequence 20 BP; 2 A; 11 C; 5 G; 2 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 552 GCCCTCAGCCGCCGC 568  
 |||||  
 Db 2 GCCCTCAGCCGCCGC 18

RESULT 1480  
 AAV32934/C  
 ID AAV32934 standard; DNA; 20 BP.  
 XX  
 AC AAV32934;  
 XX  
 XX 07-DEC-1998 (first entry)  
 DT  
 XX Human cyclin-dependent protein kinase CDK10 cDNA primer PK221234.  
 DE  
 XX CDK10; cyclin-dependent protein kinase; cell cycle; human; cancer;  
 KW cell proliferation; PCR; primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 PN WO9835015-A1.  
 XX  
 XX 13-AUG-1998.  
 PD  
 XX 06-FEB-1998; 98WO-US002337.  
 PF  
 XX 07-FEB-1997; 97US-0037855P.  
 PR 14-APR-1997; 97GB-00007491.  
 XX  
 XX (MERI ) MERCK & CO INC.  
 PA  
 XX Gerhold DL;  
 PI  
 XX WPI; 1998-447213/38.  
 DR  
 XX New nucleic acid encoding human cyclin-dependent kinase-10 - used e.g. to  
 PT identify modulators of cell cycle progression for treating cancer or  
 PT immune cell proliferation.  
 XX  
 XX Example 1; Page 27; 58pp; English.  
 PS  
 CC Gene-specific primer PK221234 and adapter primer AP1 (see AAV32935) were  
 CC used in a RACE PCR technique for cloning a 5' coding region of novel  
 CC human cyclin-dependent kinase 10 (CDK10) cDNA, using adapter-ligated  
 CC human placenta cDNA as template. Nested primers (see AAV32936-37) were  
 CC used in a second PCR, to produce an approximately 600 bp product. A 3'  
 CC fragment was identified by database search, and a full-length sequence  
 CC (see AAV32932) was produced in vector pLITMUS28.CDK10. The CDK10 protein  
 CC product (see AAV49083) is used e.g. to identify modulators of cell cycle  
 CC progression and for treating cancer or immune cell proliferation  
 XX  
 SQ Sequence 20 BP; 5 A; 7 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; Mismatches 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1160 GGGGTGTGGGCTGCATC 1176  
 |||||  
 Db 18 GGTCTGTGGGCTGCATC 2

RESULT 1481  
 AAX05691/C  
 ID AAX05691 standard; DNA; 20 BP.  
 XX  
 AC AAX05691;  
 XX  
 XX 26-APR-1999 (first entry)  
 DT  
 XX

DE Barnase open reading frame fragment amplifying primer.  
 XX  
 KW Plant transformation; T-DNA; toxin; transgenic; transgenic food;  
 KW binary vector; PCR primer; barnase; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9901563-A1.  
 XX  
 PD 14-JAN-1999.  
 XX  
 XX 29-JUN-1998; 98WO-EP004171.  
 PF  
 XX 30-JUN-1997; 97EP-00201990.  
 PR  
 XX (MOGE-) MOGEN INT NV.  
 PA  
 XX Stuiver MH, Ponstein AS, Ohl SA, Goddijn OJM, Simons LH;  
 PI Dekker BMM, Hoekstra S, Tigelaar H, Eizinga N;  
 XX  
 XX WPI; 1999-106063/09.  
 DR  
 XX New vector for plant transformation - useful for producing toxins that  
 PT are specific to certain plants, or those which act on membrane systems  
 PT and/or other cellular structures.  
 XX  
 XX Example 4; Page 21; 34pp; English.  
 PS  
 XX The invention relates to a vector for plant transformation, comprising a  
 CC T-DNA with flanking T-DNA borders and also a polynucleotide that prevents  
 CC the development of plant transformants containing more vector sequences  
 CC than the T-DNA sequence. The vectors encode toxins that are specific to  
 CC certain plants, or those which act on membrane systems and /or other  
 CC cellular structures. Examples of genes include those encoding ribozymes  
 CC against endogenous RNA transcripts, proteins evoking hypersensitive  
 CC reactions, and RNA transcripts used for antisense/co-suppression  
 CC inhibition of gene expression. The polynucleotide sequence contained in  
 CC the vectors prevents the transfer of DNA sequences beyond the T-DNA  
 CC borders. This avoids contamination of transgenic plants and/or  
 CC transgenic food with vector DNA. Sequences AAX05690-91 represent primers  
 CC used for the PCR amplification of the barnase open reading frame. This is  
 CC used in the construction of a barnase expression cassette  
 XX  
 SQ Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; Mismatches 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 115 CCGATCGCCATGGATCG 131  
 |||||  
 Db 20 CAGATCTCCATGGATCG 4

RESULT 1482  
 AAZ31303  
 ID AAZ31303 standard; DNA; 20 BP.  
 XX  
 AC AAZ31303;  
 XX  
 XX 24-JAN-2000 (first entry)  
 DT  
 XX CCR5 gene inhibiting antisense oligo AS(s)-60.  
 DE  
 XX HIV cofactor inhibitor; HIV infection; CXCR4 gene; CCR5 gene;  
 KW drug composition; antisense; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9951751-A1.  
 XX  
 XX 14-OCT-1999.  
 PD  
 XX

PF 01-APR-1999; 99WO-JP001722.  
 PR 02-APR-1998; 98JP-00125452.  
 PA (MARI-) MARINE BIO CO LTD.  
 XX Takaku H, Yamamoto N, Kimura T, Takai K, Wada A;  
 XX WPI; 1999-620207/53.  
 DR Antisense oligonucleotide-based HIV cofactor inhibitors, as drug  
 PT compositions for treatment of HIV infection.  
 XX Claim 6; Page 16; 59pp; Japanese.  
 XX The invention provides HIV cofactor inhibitors that contain  
 CC oligonucleotides with a base sequence complementary to the CXCR4 or CCR5  
 CC genes. Such inhibitors can be formulated into drug compositions for  
 CC prevention or treatment of HIV infection, with inhibition of expression  
 CC of CXCR4 or/and CCR5 gene. Sequences AA231244-306 represent antisense  
 CC oligonucleotides to the CCR5 gene  
 XX  
 SQ Sequence 20 BP; 3 A; 6 C; 6 G; 5 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; Mismatches 0; Gaps 0;  
 Matches 15; Conservative 0; Indels 2; Indels 0; Gaps 0;  
 QY 92 CTGAGTTGCTCGCGC 108  
 DB ||||| ||||| ||  
 3 CTGAGTTGCTCGCTCG 19  
 RESULT 1483  
 AA204231  
 ID AA204231 standard; DNA; 20 BP.  
 XX  
 AC AA204231;  
 XX  
 DT 07-OCT-1999 (first entry)  
 XX  
 DE PCR primer used to amplify an ORF of Chlamydia trachomatis.  
 XX  
 KW Vaccine; eye disease; conventional trachoma; nonendemic trachoma;  
 KW paratrachoma; inclusion conjunctivitis; genital disease; perihhepatitis;  
 KW nongonococcal urethritis; epididymitis; cervicitis; salpingitis; PCR primer;  
 KW bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.  
 XX  
 OS Synthetic.  
 OS Chlamydia trachomatis.  
 XX  
 PN WO9928475-A2.  
 XX  
 PD 10-JUN-1999.  
 XX  
 PF 27-NOV-1998; 98WO-IB001939.  
 XX  
 PR 28-NOV-1997; 97FR-00015041.  
 PR 17-DEC-1997; 97FR-00016034.  
 PR 04-NOV-1998; 98US-0107077P.  
 XX  
 PA (GBST ) GENSET.  
 XX  
 PI Griffais R;  
 XX  
 DR WPI; 1999-371125/31.  
 XX  
 PT Genome sequence of Chlamydia trachomatis.  
 XX  
 PS Disclosure; Page 1671; 1755pp; English.  
 XX  
 CC PCR primers AA201426-206209 were used to amplify open reading frames  
 CC (ORFs) of the genome of Chlamydia trachomatis (see AA201425). These ORFs

CC encode polypeptides (see AAY36754-Y37949) which can be used as vaccines  
 CC against Chlamydia trachomatis. Antisense and ribozyme sequences can also  
 CC be used to control growth of the microorganism. Chlamydia trachomatis is  
 CC responsible for a large number of diseases, e.g. eye diseases such as  
 CC conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion  
 CC conjunctivitis; genital diseases such as nongonococcal urethritis;  
 CC epididymitis, cervicitis, salpingitis, perihhepatitis, bartholinitis;  
 CC pneumopathy in breast feeding infants; and venereal lymphogranulomatosis.  
 CC The polypeptides of the invention may be of use in treating these  
 CC diseases  
 XX  
 SQ Sequence 20 BP; 4 A; 6 C; 4 G; 6 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; Mismatches 0; Gaps 0;  
 Matches 15; Conservative 0; Indels 2; Indels 0; Gaps 0;  
 QY 1724 ATGTTACCTGCCCACT 1740  
 DB ||||| ||||| |||||  
 2 ATGTTATCTCGGCACT 18  
 RESULT 1484  
 AA202916  
 ID AA202916 standard; DNA; 20 BP.  
 XX  
 AC AA202916;  
 XX  
 DT 07-OCT-1999 (first entry)  
 XX  
 DE PCR primer used to amplify an ORF of Chlamydia trachomatis.  
 XX  
 KW Vaccine; eye disease; conventional trachoma; nonendemic trachoma;  
 KW paratrachoma; inclusion conjunctivitis; genital disease; perihhepatitis;  
 KW nongonococcal urethritis; epididymitis; cervicitis; salpingitis; PCR primer;  
 KW bartholinitis; pneumopathy; venereal lymphogranulomatosis; ss.  
 XX  
 OS Synthetic.  
 OS Chlamydia trachomatis.  
 XX  
 PN WO9928475-A2.  
 XX  
 PD 10-JUN-1999.  
 XX  
 PF 27-NOV-1998; 98WO-IB001939.  
 XX  
 PR 28-NOV-1997; 97FR-00015041.  
 PR 17-DEC-1997; 97FR-00016034.  
 PR 04-NOV-1998; 98US-0107077P.  
 XX  
 PA (GBST ) GENSET.  
 XX  
 PI Griffais R;  
 XX  
 DR WPI; 1999-371125/31.  
 XX  
 PT Genome sequence of Chlamydia trachomatis.  
 XX  
 PS Disclosure; Page 1564; 1755pp; English.  
 XX  
 CC PCR primers AA201426-206209 were used to amplify open reading frames  
 CC (ORFs) of the genome of Chlamydia trachomatis (see AA201425). These ORFs  
 CC encode polypeptides (see AAY36754-Y37949) which can be used as vaccines  
 CC against Chlamydia trachomatis. Antisense and ribozyme sequences can also  
 CC be used to control growth of the microorganism. Chlamydia trachomatis is  
 CC responsible for a large number of diseases, e.g. eye diseases such as  
 CC conventional trachoma, nonendemic trachoma, paratrachoma, and inclusion  
 CC conjunctivitis; genital diseases such as nongonococcal urethritis;  
 CC epididymitis, cervicitis, salpingitis, perihhepatitis, bartholinitis;  
 CC pneumopathy in breast feeding infants; and venereal lymphogranulomatosis.  
 CC The polypeptides of the invention may be of use in treating these  
 CC diseases  
 XX

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RESULT 1486
AAAX23549/c
ID AAX23549 standard; DNA; 20 BP.
XX
XX AAAX23549;
XX
XX 18-JUN-1999 (first entry)
XX
XX Deletion sequence oligonucleotide 2.
XX
XX Deletion sequence oligonucleotide; sensor array; eukaryotic pathogen;
KW probe; cellular adhesion modulator; cellular proliferation modulator;
KW human retrovirus; human immunodeficiency virus; non-human retrovirus;
KW HIV; primer; ss.
XX
XX Synthetic.
XX OS
XX WO9911820-A1.
XX PN
XX 11-MAR-1999.
XX PD
XX
XX 01-SEP-1998; 98WO-USO18084.
XX PF
XX 02-SEP-1997; 97US-00923771.
XX PR
XX (ISIS-) ISIS PHARM INC.
XX PA
XX Chen D, Srivatsa GS;
XX FI
XX WPI; 1999-205198/17.
XX DR
XX
XX New compositions comprising sensor arrays made up of unique probe
PT oligonucleotides - useful for characterizing a sample of target deletion
PT oligonucleotides.
XX
XX Example 1; Page 89; 163pp; English.
XX
XX This invention describes a novel composition comprising a number of
XX sensor arrays, where each array comprises a unique probe oligonucleotide,
CC which is the reverse complement of part of a unique target
CC oligonucleotide present in a mixture of target deletion sequence
CC oligonucleotides. The compositions form a method for characterizing a
CC sample of target deletion oligonucleotides which are labelled and
CC hybridize with the probe oligonucleotides of the sensor arrays. Such
CC oligonucleotides and their targets are represented in AAX23548-X23709.
CC Oligonucleotides characterized by the method form pharmaceutical
CC compositions that are useful for modulating cellular adhesion or
CC proliferation, and being active against a eukaryotic pathogen, a human
CC retrovirus, a human immunodeficiency virus (HIV), or a non-human
CC retrovirus, including influenza virus, Epstein-Barr virus, Respiratory
CC Syncytial Virus or cytomegalovirus (CMV). The compositions enable
CC characterization of deletion sequence oligonucleotides having related,
CC but different nucleobase sequences, and quantification of different
CC species of deletion sequence ("target") oligonucleotides in a mixture.
CC Also, if the specificity of the oligonucleotide's nucleobase sequence for
CC its reverse complement is not modified, the method may be performed using
CC oligodeoxynucleotides
XX
SQ Sequence 20 BP; 0 A; 5 C; 5 G; 10 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03; Indels 0; Gaps
Matches 15; Conservative 0; Mismatches 2;
Qy 133 ATGAAGAAGATCAACG 149
| | | | | | | | | |
Db 18 AAGAAGAAGAGCAACG 2
RESULT 1487
AAX92036
ID AAX92036 standard; DNA; 20 BP.
XX

```

AC AAX92036;  
 XX  
 DT 13-SEP-1999 (first entry)  
 XX  
 DE PCR primer used to amplify an ORF of Chlamydia pneumoniae.  
 XX  
 KW Respiratory disease; pneumonia; bronchitis; heart disease; sarcoidosis;  
 KW sinusitis; purulent otitis media; erythema nodosum; pharyngitis; vaccine;  
 KW neutralising epitope; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Chlamydophila pneumoniae.  
 XX  
 PN WO9927105-A2.  
 XX  
 PD 03-JUN-1999.  
 XX  
 PF 20-NOV-1998; 98WO-IB001890.  
 XX  
 PR 21-NOV-1997; 97FR-00014673.  
 PR 04-NOV-1998; 98US-0107078P.  
 XX  
 PA (GEST ) GENSET.  
 XX  
 PI Griffais R;  
 XX  
 DR WPI; 1999-357842/30.  
 XX  
 PT Genome sequence of Chlamydia pneumoniae.  
 XX  
 PS Page 1480; Disclosure; 1912pp; English.  
 XX  
 CC AAX91991-X97517 represent PCR primers used to amplify open reading frames  
 CC and other nucleic acid sequences from the genome of Chlamydia pneumoniae  
 CC (see AAX91990). C. pneumoniae causes respiratory disease such as  
 CC pneumonia and bronchitis and is thought to be a contributing factor in  
 CC heart disease, sarcoidosis, sinusitis, purulent otitis media, erythema  
 CC nodosum or pharyngitis. The polypeptides encoded by the open reading  
 CC frames of the C. pneumoniae genome (see AAX34584-AAX35879) can be used  
 CC in immunogenic compositions as vaccines. Vectors containing C. pneumoniae  
 CC nucleotide sequences can also be used as immunogenic compositions,  
 CC especially where the vector directs the expression of a neutralising  
 CC epitope of C. pneumoniae  
 XX  
 SQ Sequence 20 BP; 6 A; 6 C; 6 G; 2 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1468 CTGGGGGAGCGGATCCA 1484  
 Db ||||| ||||| ||||| ||||| |||||  
 4 CTGGGAGAGCGGATCCA 20  
 RESULT 1488  
 AAZ46520  
 ID AAZ46520 standard; DNA; 20 BP.  
 XX  
 AC AAZ46520;  
 XX  
 DT 13-MAR-2000 (first entry)  
 XX  
 DE Human EST JRL4A1 amplifying forward primer.  
 XX  
 KW Retinal calcium channel; RCC gene; alpha1F-subunit; retinal disorder;  
 KW myopia; nystagmus; strabismus; calcium-regulated development pathway;  
 KW eye disorder; human; EST; expressed sequence tag; CSNB; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN WO9963078-A2.

XX 09-DEC-1999.  
 PD  
 XX  
 PF 02-JUN-1999; 99WO-CA000514.  
 XX  
 PR 02-JUN-1998; 98US-0087635P.  
 XX  
 PA (UVTE-) UNIV TECHNOLOGIES INT INC.  
 XX  
 PI Bech-Hansen T, Naylor MJ;  
 XX  
 DR WPI; 2000-097327/08.  
 XX  
 PT New isolated mammalian retinal calcium channel gene, used to develop  
 PT products for the diagnosis and treatment of incomplete congenital  
 PT stationary night blindness and related disorders.  
 XX  
 PS Disclosure; Page 15; 55pp; English.  
 XX  
 CC The invention provides a DNA molecule comprising a sequence of  
 CC nucleotides encoding an alpha1F-subunit of a mammalian retinal calcium  
 CC channel (RCC), including a human alpha1F-subunit, a murine alpha1F-  
 CC subunit and orthologs of the human and murine alpha1F-subunits. The RCC  
 CC gene may be used to develop products for diagnostic tests, for incomplete  
 CC CSMB and risk assessment in affected families. The RCC gene can provide  
 CC information as to the basic defect in this retinal conditions, which  
 CC could lead to effective methods for treatment or cure of the disorder. As  
 CC the associated features of myopia, nystagmus and strabismus frequently  
 CC observed in patients with incomplete CSNB may be caused by calcium-  
 CC regulated development pathways, identification of the RCC gene may help  
 CC to elucidate the molecular details of eye development and which may lead  
 CC to treatment for related eye disorders or diseases. Sequences AAZ46520-21  
 CC represent primers for amplifying the human expressed sequence tag (EST)  
 CC JRL4A1  
 XX  
 SQ Sequence 20 BP; 1 A; 6 C; 2 G; 11 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1698 TTACTCTCTGCTACCT 1714  
 Db ||||| ||||| ||||| ||||| |||||  
 1 TTCTCTCTGCTACCT 17  
 RESULT 1489  
 AAZ69753/c  
 ID AAZ69753 standard; DNA; 20 BP.  
 XX  
 AC AAZ69753;  
 XX  
 DT 10-SEP-2001 (first entry)  
 XX  
 DE Human biallelic marker upstream amplification primer SEQ ID NO:4109.  
 XX  
 KW Human genome; biallelic marker; high density disequilibrium map;  
 KW genomic map; haplotype; phenotype; polymorphic base; genotyping;  
 KW haplotyping; hybridisation; identification; characterisation;  
 KW amplification; single nucleotide polymorphism; SNP; PCR primer;  
 KW diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9954500-A2.  
 XX  
 PD 28-OCT-1999.  
 XX  
 PF 21-APR-1999; 99WO-IB000822.  
 XX  
 PR 21-APR-1998; 98US-0082614P.  
 PR 23-NOV-1998; 98US-0109732P.  
 XX

PA (GEST ) GENSET.  
 XX Cohen D, Blumenfeld M, Chumakov I;  
 XX WPI; 2000-013267/01.  
 XX Novel biallelic markers used to construct a high density disequilibrium  
 XX map of the human genome.  
 XX Claim 8; Page 1107; 2745pp; English.  
 XX AAZ65654 to AAZ69578 represent human biallelic markers from the present  
 XX invention, which contain a polymorphic base at position 24 of their  
 XX nucleotide sequences. AAZ69579 to AAZ77440 represent amplification  
 XX primers for the biallelic markers. The biallelic markers of the invention  
 XX have a variety of uses: they can be used for high density mapping of the  
 XX human genome, and in complex association studies and haplotyping studies  
 XX which are useful in determining the genetic basis for disease states.  
 XX Compositions and methods of the invention can also be useful for the  
 XX identification of the targets for the development of pharmaceutical  
 XX agents and diagnostic methods, as well as the characterisation of the  
 XX differential efficacious responses to and side effects from  
 XX pharmaceutical agents acting on a disease as well as other treatment.  
 XX N.B. The SEQ ID NOs 2852, 2913, 2974, 3035, 3096, 3157, 3227, 3297 and  
 XX 3367, are not actually given a sequence in the Sequence listing from the  
 XX present invention  
 XX Sequence 20 BP; 2 A; 3 C; 6 G; 9 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1060 ATCCCAACAAACACATA 1076  
 Db ||| ||||| ||||| |||||  
 18 ATCAACAACACACACATA 2  
 RESULT 1490  
 AAA61782/c  
 ID AAA61782 standard; DNA; 20 BP.  
 XX AAA61782;  
 XX 23-OCT-2000 (first entry)  
 XX Human serine protease BSSP6 (hBSSP6), RACE PCR primer, SEQ ID NO:23.  
 XX BSSP6; serine protease; human; hBSSP6; mouse; mBSSP6; brain;  
 XX diagnostic marker; antibody; transgenic animal; Alzheimer's disease;  
 XX epilepsy; cancer; inflammation; infertility; pancreatitis;  
 XX prostatic hypertrophy; PCR primer; ss.  
 XX Homo sapiens.  
 XX WO2000031257-A1.  
 XX 02-JUN-2000.  
 XX 19-NOV-1999; 99WO-JP006476.  
 XX 20-NOV-1998; 98JP-00347802.  
 XX (FUSO ) FUSO PHARM IND LTD.  
 XX Uemura H, Okui A, Kominami K, Yamaguchi N, Mitsui S;  
 XX WPI; 2000-400067/34.  
 XX Serine protease BSSP6, useful in detecting homologs, mutants and  
 XX polymorphic variants as markers for diagnosis of Alzheimer's disease,  
 XX epilepsy, cancer, inflammation, infertility and prostate hypertrophy,  
 XX using blood or other tissues.

XX Example 1; Page 30; 94pp; Japanese.  
 XX The invention relates to novel serine proteases designated BSSP6  
 XX (AAB11712-B11714), and to nucleic acids encoding them (AAA61763-A61765).  
 XX The invention also relates to vectors and transformants comprising BSSP6  
 XX nucleic acids; transgenic animals in which the expression level of BSSP6  
 XX can be varied; and an mBSSP6 knockout mouse. The invention additionally  
 XX encompasses anti-BSSP6 antibodies and methods of production of such  
 XX antibodies, methods of BSSP6 detection using the antibodies, and the use  
 XX of BSSP6 proteins or fragments as diagnostic markers for certain medical  
 XX conditions. Nucleotides encoding BSSP6 were initially isolated in a human  
 XX brain cDNA library using degenerate PCR primers (AAA61795-A61796) based  
 XX on conserved regions of serine proteases. The BSSP6 serine proteases and  
 XX nucleotides encoding them are useful in detecting homologues, mutants and  
 XX polymorphic variants in biological samples (e.g., blood, urine, brain,  
 XX prostate gland, placenta, testis and spleen) as diagnostic markers for  
 XX conditions such as Alzheimer's disease, epilepsy, cancer, inflammation,  
 XX infertility and prostatic hypertrophy. Sequences AAA61768-A61796  
 XX represent PCR primers used in the exemplifications of the invention.  
 XX Primers AAA61775-A61784 and AAA61793- AAA61796 were used to isolate and  
 XX amplify human BSSP6 cDNAs (AAA61763, AAA61765), while primers AAA61785-  
 XX A61792 were used to isolate and amplify murine BSSP6 cDNA (AAA61764).  
 XX Primers AAA61768-A61774 were used to construct plasmids used in the  
 XX invention  
 XX Sequence 20 BP; 2 A; 7 C; 3 G; 8 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 44 GAGGACCCAGCAGTGGA 50  
 Db ||| ||||| ||||| |||||  
 20 GAGCACCAGAGAGTGGA 4  
 RESULT 1491  
 AAX89471/c  
 ID AAX89471 standard; DNA; 20 BP.  
 XX AAX89471;  
 XX 15-FEB-2000 (first entry)  
 XX PCR primer used to screen a BAC library for 14-3-3 sigma.  
 XX 14-3-3 sigma; HME1; stratifin; p53; diagnosis; cancer; psoriasis; polyp;  
 XX psoriasis; wart; inflammatory disease; proliferation; ss; PCR primer.  
 XX Synthetic.  
 XX WO9931240-A2.  
 XX 24-JUN-1999.  
 XX 18-DEC-1998; 98WO-US026924.  
 XX 18-DEC-1997; 97US-0069416P.  
 XX 15-DEC-1998; 98US-00210748.  
 XX (UYJO ) UNIV JOHNS HOPKINS.  
 XX Hermeking H, Vogelstein B, Kinzler KW;  
 XX WPI; 2000-022907/02.  
 XX Use of 14-3-3 sigma polypeptides and nucleic acids for the diagnosis or  
 XX treatment of cancer.  
 XX Example 3; Page 33; 73pp; English.  
 XX PCR primers AAX89470-X89471 are used to screen a BAC library for the



CC presence of a 14-3-3 sigma nucleotide sequence. 14-3-3 sigma is a member  
CC of the 14-3-3 protein family and is also known as HME1 or stratifin. 14-3-  
CC -3 sigma expression is regulated by p53 and exogenous expression of 14-3-  
CC 3 sigma results in G2 block. The 14-3-3 sigma nucleotide and amino acid  
CC sequences are used in the invention to develop agents for the diagnosis,  
CC susceptibility determination and treatment of cancer. The amino acid  
CC sequence can be used in method for suppressing the growth of tumour  
CC cells. The 14-3-3 sigma polypeptides can mediate cell cycle arrest upon  
CC damage to cellular DNA. 14-3-3 sigma probes can be used for diagnosing,  
CC testing susceptibility to or treating cancers and identifying agents for  
CC treating cancers. They can also be used to treat other proliferative  
CC diseases, e.g. psoriasis, polyps, warts, and inflammatory diseases. The  
CC 14-3-3 sigma antisense oligonucleotides can be used for promoting the  
CC proliferation and growth of cells  
XX  
SQ Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 843 TGAGTACTGACCAAGG 859  
Db 18 TGAGTACCGGAGAGG 2

RESULT 1492  
AAA29848/C  
ID AAA29848 standard; DNA; 20 BP.

XX AAA29848;

DT 25-AUG-2000 (first entry)

DE Human jun N-terminal kinase kinase-2 antisense oligonucleotide #33.

XX Human; jun N-terminal kinase kinase-2; JKK-2; modulation; tumour;  
XX antiinflammatory; cytostatic; antiinfectious; infection; inflammation;  
XX detection; antisense therapy; phosphorothioate; ss.

XX Homo sapiens.

XX Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= a  
FT /note= "Phosphorothioate linkages"

XX US5054440-A.

XX 25-APR-2000.

XX 24-JUN-1999; 99US-00344001.

XX 24-JUN-1999; 99US-00344001.

XX (ISIS-) ISIS PHARM INC.

XX Monia BP, Cowsert LM;

XX WPI; 2000-338506/29.

XX Antisense compound specifically hybridizing and inhibiting the expression  
XX of human Jun N-terminal kinase kinase-2 is useful for treating infection,  
XX inflammation and tumor.

XX Claim 3; Col 40; 31pp; English.

XX The present invention describes an antisense compound (I) of 8-30  
XX nucleobases, specifically hybridising to, and inhibiting expression of,  
XX human jun N-terminal kinase kinase-2 (JNK-2). Also described is a method  
XX of inhibiting the expression of human JKK-2 in human cells or tissues,  
XX comprising contacting the cells or tissues, with (I), in vitro. (I) has  
XX antiinflammatory, cytostatic and antiinfectious activities. (I) is useful

CC for inhibiting the expression of JKK-2 in human cells or tissues and  
CC prevents or delays infection, inflammation or tumour formation associated  
CC with altered expression of JKK-2. (I) is also useful for detecting the  
CC levels of JKK-2 in a sample. The present sequence represents a  
CC phosphorothioate antisense oligonucleotide for human JKK-2, from the  
XX present invention

SQ Sequence 20 BP; 2 A; 4 C; 10 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 974 ACCGAGACCTCAAGCCC 990

Db 20 ACCGCGAGCTCAAGCCC 4

RESULT 1493

AAA30532

ID AAA30532 standard; DNA; 20 BP.

XX AAA30532;

DT 15-SEP-2003 (revised)

DT 21-AUG-2000 (first entry)

DE C. tropicalis CYP52A5A/CYP52A5B QC-RT-PCR primer, SEQ ID NO:47.

XX Cytochrome P450; NADPH reductase; monooxygenase; CYP52A; CPR; FOX;

XX omega hydroxylase complex; omega-oxidation; fatty acid; alkane;

XX alpha-omega-dicarboxylic acid production;

XX quantitative competitive reverse transcription-PCR; QC-RT-PCR primer; ss.

XX Candida tropicalis; ATCC20366.

XX WO200020566-A2.

XX 13-APR-2000.

XX 10-SEP-1999; 99WO-US020797.

XX 05-OCT-1998; 98US-0103099P.

XX 10-MAR-1999; 99US-0123555P.

XX (HENK ) HENKEL CORP.

XX Willson CR, Craft DL, Eirich LD, Eshoo M, Madduri KM, Cornett CA;

XX Brenner AA, Tang M, Loper JC, Gleeson M;

XX WPI; 2000-317711/27.

XX Cytochrome P450 nicotine adenine dinucleotide phosphate oxidoreductase

XX and cytochrome P450 monooxygenase nucleic acids and encoded proteins,

XX useful for overproducing dicarboxylic acids.

XX Example 11; Page 44; 200pp; English.

XX The invention relates to 12 novel genomic DNA sequences and proteins  
XX which are components of the omega hydroxylase complex of Candida  
XX tropicalis ATCC 20366. The DNA sequences (AAA30566-A30577) respectively  
XX encode cytochrome P450 NADPH oxidoreductases CPRA and CPRB (AA90596,  
XX AA90597) and cytochrome P450 monooxygenases CYP52A1A, CYP52A2A,  
XX CYP52A2B, CYP52A3A, CYP52A3B, CYP52A5A, CYP52A5B, CYP52A8A, CYP52A8B and  
XX CYP52D4A (AA90598-Y90607). Of the cytochrome P450 DNAs isolated, six are  
XX unique CYP genes and four are potential alleles. The omega hydroxylase  
XX complex is a membrane-bound enzyme complex found in certain yeasts which  
XX catalyses the first step in the omega-oxidation of fatty acids or  
XX alkanes, this being primary oxidation of the terminal methyl group. Such  
XX yeasts, which include members of the genus Candida, excrete alpha-omega-  
XX dicarboxylic acids when alkanes or fatty acids are used as the carbon  
XX source. The products of the P450 genes CYP52A1, CYP52A2 and CYP52A5 were  
XX identified as playing a greater role in the omega-oxidation of long chain



CC to evaluate the response to one or more drugs of abuse. Evaluation of the  
 CC nature of this response provides information useful in designing  
 CC therapeutic and recovery regimens, and in evaluating the susceptibility  
 CC of an organism or patient to drugs in a medical context. Monitoring the  
 CC expression of identified genes and/or ESTs provides a mechanism by which  
 CC test agents can be screened for the ability to alter or modulate the  
 CC response of the organism to drugs of abuse. Sequences AA25944-Z5951  
 CC represent reverse transcriptase-PCR (RT-PCR) primers used to amplify 4  
 CC cDNA hybridisation probes from SH-SY5Y-AH1861 human neuroblastoma cell  
 CC total RNA. The probes were used in Northern blot analysis of gene  
 CC expression in control and ethanol-treated SH-SY5Y-AH1861 cells in an  
 CC exemplification of the present invention. The genes whose expression was  
 CC analysed were dopamine beta-hydroxylase (DBH) and sodium-dependent  
 CC norepinephrine transporter (NET), both of which are involved in  
 CC norepinephrine metabolism; delta-like protein (DLK); and monocyte  
 CC chemoattractant peptide 1 (MCP-1). These genes are thought to be  
 CC important targets of ethanol. Primers AA25944-Z5945 were used to  
 CC generate the dopamine beta-hydroxylase (DBH) probe  
 XX  
 SQ Sequence 20 BP; 3 A; 8 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 400 GTGAGTCTCCAGTGAG 416  
 ||||| |||||  
 Db 18 GTGAGTAGCCAGTGAG 2

RESULT 1496  
 AAA92148  
 ID AAA92148 standard; DNA; 20 BP.  
 XX  
 AC AAA92148;  
 XX  
 DT 04-JAN-2001 (first entry)  
 XX  
 DE Human Lhx3 exon 6 PCR primer SEQ ID NO:113.  
 XX  
 Lhx3; LIM-3; P-LIM; identification; characterisation; diagnosis;  
 KW chromosome 9; pituitary disease; subtelomeric region; mutation;  
 KW pituitary trophic hormone gene promoter; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200050868-A2.  
 XX  
 PD 31-AUG-2000.  
 XX  
 PF 22-FEB-2000; 2000WO-US004424.  
 XX  
 PR 22-FEB-1999; 99US-0121110P.  
 XX

PA (ADRE-) ADVANCED RES & TECHNOLOGY INST.  
 XX  
 PI Rhodes SJ, Bridwell JL, Meier BC, Parker GE, Price JR;  
 PI Showalter AD, Sloop KW;  
 XX  
 DR WPI; 2000-594085/56.  
 XX  
 PT New isolated nucleic acid encoding mammalian Lhx3 for identifying a human  
 PT with a disease, disorder, or condition caused by an altered level of  
 PT expression or binding of Lhx3.  
 XX  
 PS Example 6; Page 169; 239pp; English.  
 XX

CC The present invention describes an isolated nucleic acid (I) encoding a  
 CC mammalian Lhx3. (I) is used in assays to: (1) detect and quantify the  
 CC presence and level of expression of Lhx3, Lhx3a or Lhx3b, in a sample;  
 CC (2) identify a compound that affects expression, the level of expression,  
 CC or the activity of Lhx3, Lhx3a, or Lhx3b in a cell; (3) identify a  
 CC compound that affects binding of Lhx3 to nucleic acid or Lhx3 induction

CC of a pituitary trophic hormone gene promoter; (4) identify a human  
 CC afflicted with a disease, disorder, or condition caused by altered  
 CC expression of Lhx3 or altered level of binding of Lhx3 to a nucleic acid;  
 CC and (5) detect a mutation in a Lhx3 allele in a human. The coding region  
 CC of human Lhx3 has been genomically mapped to the subtelomeric region of  
 CC chromosome 9. Lhx3 is also known as P-LIM or LIM-3. The present sequence  
 CC represents a PCR primer used in the amplification of human Lhx3, which is  
 CC used in an example from the present invention  
 XX

SQ Sequence 20 BP; 2 A; 4 C; 9 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 389 CCTCGGATGAGGTGCAG 405  
 ||||| |||||  
 Db 1 CCTCGTGTGAGGTGCAG 17

RESULT 1497  
 AAA66884  
 ID AAA66884 standard; DNA; 20 BP.  
 XX  
 AC AAA66884;  
 XX  
 DT 09-OCT-2000 (first entry)  
 XX  
 DE Dog genomic marker oligonucleotide sequence SEQ ID NO:746.  
 XX  
 KW Dog; genome; genomic marker; radiation hybrid map; identification;  
 KW chromosome location; gene marker; polymorphic microsatellite marker;  
 KW phenotype; behaviour; pedigree; ss.  
 XX  
 OS Canis familiaris.  
 XX  
 PN WO200029615-A2.  
 XX  
 PD 25-MAY-2000.  
 XX  
 PF 15-NOV-1999; 99WO-IB001907.  
 XX  
 PR 13-NOV-1998; 98US-0108193P.  
 XX  
 PA (CNRS ) CNRS CENT NAT RECH SCI.  
 XX  
 PI Galibert F, Andre C;  
 XX  
 DR WPI; 2000-387821/33.  
 XX  
 PT New radiation hybrid map of the dog, Canine familiaris, genome, useful  
 PT for e.g. identifying genes implicated in phenotypic and behavioral traits  
 PT or in genetic diseases and for studying dog pedigrees.  
 XX  
 PS Claim 1; Page 85; 87pp; English.  
 XX

CC The present invention describes a radiation hybrid map of the dog (Canine  
 CC familiaris) genome comprising the genome location of a marker selected  
 CC from AAA66139 to AAA66942. The radiation hybrid map is useful for  
 CC identifying and localising dog genes, since it covers approximately 80 %  
 CC of the dog genome and provides a dense map integrating different types  
 CC (i.e. Type I and Type II) of markers. The map and the dog genome markers  
 CC (or complementary sequences) are especially useful to identify genes  
 CC responsible for phenotypic and behavioural traits in dogs, to identify  
 CC morbid genes, to analyse diseases and identify implicated genes in such  
 CC diseases and their alleles, and to study dog pedigrees. They may also be  
 CC useful for isolating corresponding human gene sequences e.g. genes  
 CC involved in genetic diseases  
 XX

SQ Sequence 20 BP; 6 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 393 GGATGAGGTGCGATCTC 409  
 ||| ||||| |||||  
 Db 4 GGAAGAGGTGCAATCTC 20

RESULT 1498  
 AAK95171  
 ID AAK95171 standard; DNA; 20 BP.  
 XX  
 AC AAK95171;  
 XX  
 DT 06-NOV-2001 (first entry)  
 XX  
 DE Human cDNA clone-specific primer, SEQ ID NO: 4416.  
 XX  
 KW Human; full length cDNA; cDNA synthesis; oligo-capping; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN EP1130094-A2.  
 XX  
 PD 05-SEP-2001.  
 XX  
 PF 07-JUL-2000; 2000EP-00114089.  
 XX  
 PR 08-JUL-1999; 99JP-00194486.  
 PR 11-JAN-2000; 2000JP-00118774.  
 PR 02-MAY-2000; 2000JP-00183765.  
 XX  
 PA (HELI-) HELIX RES INST.  
 XX  
 PI Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;  
 PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;  
 XX  
 DR WPI; 2001-524255/58.  
 XX  
 PT 830 Primers useful for synthesizing full length cDNA clones and their use  
 PT in genetic manipulation.  
 XX  
 PS Example 18; Page 132; 1380pp + Sequence Listing; English.  
 XX  
 CC The invention relates to primers for synthesizing full length cDNA  
 CC clones. 830 cDNA molecules encoding a human protein have been isolated  
 CC and nucleotide sequences of 5'- and 3'-ends of the cDNA molecules have  
 CC been determined. Primers for synthesizing the full length cDNA are useful  
 CC for clarifying the function of the protein encoded by the cDNA. The full  
 CC length clones were obtained by construction of full length enriched cDNA  
 CC libraries that were synthesised by the oligo-capping method. The primers  
 CC enable the production of the full length cDNA easily without any special  
 CC methods. The present sequence is a primer used to amplify a human cDNA  
 CC clone provided in the invention  
 XX  
 SQ Sequence 20 BP; 7 A; 3 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 19 TGGACAGGAATGCAGAG 35  
 ||||| ||||| |||||  
 Db 4 TGGACAGGCAAGCAGAG 20

RESULT 1499  
 AAK20451/c  
 ID AAK20451 standard; DNA; 20 BP.  
 XX  
 AC AAK20451;  
 XX  
 DT 30-JUL-2001 (first entry)  
 XX

DE L. monocytogenes listeriolysin O variant LLO PCR primer #3.  
 XX  
 KW Transport system; gene therapy; infection; tumor; ss; LLO; PCR primer;  
 KW human immune deficiency virus; hemophilia; muscular dystrophy; capsid;  
 KW cystic fibrosis; virus-like particle; cell targeting; listeriolysin O.  
 XX  
 OS Listeria monocytogenes.  
 XX  
 PN WO200132851-A2.  
 XX  
 PD 10-MAY-2001.  
 XX  
 PF 03-NOV-2000; 2000WO-EP010876.  
 XX  
 PR 03-NOV-1999; 99DE-01052957.  
 XX  
 PA (ACGT-) ACGT PROGENOMICS AG.  
 XX  
 PI Boehm G, Rudolph R, Schmidt U, Esser D;  
 XX  
 DR WPI; 2001-316433/33.  
 XX  
 PT Transport system for compounds, useful e.g. in gene therapy, comprises  
 PT mosaic-like assembly of different protein subunits able to encapsulate  
 PT compounds.  
 XX  
 PS Example 11; Page 35; 106pp; German.  
 XX  
 CC This invention describes a novel transport system (A) for molecular  
 CC substances (I) containing recombinantly prepared subunits (SU) based on  
 CC amino acids (aa) comprising: (i) at least two modified SU with one  
 CC difference; and/or (ii) one or more modified SU with at least two  
 CC differences; and (iii) (optionally) unmodified SU. The various SU are  
 CC combined in a mosaic fashion to form (A) in which (I) can be  
 CC encapsulated. (A) Are used to deliver (I) specifically to cells,  
 CC particularly DNA to eukaryotic cells for gene therapy, e.g. of infections  
 CC by human immune deficiency virus, tumors and a wide range of inherited  
 CC diseases such as hemophilia, muscular dystrophy or cystic fibrosis.  
 CC Capsids or other virus-like particles can be assembled, simply and in  
 CC modular fashion, in vitro, allowing control over stoichiometric  
 CC composition. SU can be modified to impart a wide variety of selected  
 CC properties, e.g. cell targeting, improved cellular uptake and reduced  
 CC immunogenicity. (A) do not require extensive testing to ensure that they  
 CC are safe (contrast replication-deficient viruses), also SU can be  
 CC prepared in very pure form and are easily labeled fluorescently (for  
 CC quality control or localization). This sequence represents a PCR primer  
 CC used in the production of a Listeria monocytogenes listeriolysin LLO  
 CC variant which is used to illustrate the method of the invention  
 XX  
 SQ Sequence 20 BP; 3 A; 13 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 230 GTGGTGGTGGTGGCGGC 246  
 ||||| ||||| |||||  
 Db 17 GCGGTGGAGGTGGCGGC 1

RESULT 1500  
 AAK23201  
 ID AAK23201 standard; DNA; 20 BP.  
 XX  
 AC AAK23201;  
 XX  
 DT 17-SEP-2001 (first entry)  
 XX  
 DE Human WMIF mRNA inhibiting antisense oligo ISIS #112711.  
 XX  
 KW Macrophage migration inhibitory factor; WMIF; antisense; neurological;  
 KW hyperproliferation; nontropic; antihormonal; immunosuppressive; human;  
 KW antiinflammatory; cytostatic; ss.

```
XX Synthetic.
OS Homo sapiens.
XX
XX WO200153317-A1.
XX
XX 26-JUL-2001.
XX
XX
XX 16-JAN-2001; 2001WO-US001475.
XX
XX 20-JAN-2000; 2000US-00489869.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Murray SP, Cowesert LM, Wyatt JR;
XX
XX WPI; 2001-451899/48.
XX
XX
XX New antisense compound(s) are useful to inhibit a nucleic acid molecule
XX encoding macrophage migration inhibitory factor.
XX
XX Claim 3; Page 82; 105pp; English.
XX
XX The invention relates to antisense oligonucleotides 8-30 nucleotides in
XX length targeted to a nucleic acid molecule encoding macrophage migration
XX inhibitory factor (MMIF), where the antisense compound specifically
XX hybridizes with and inhibits the expression of MMIF. The antisense
XX nucleotides are useful for the treatment of a disease or condition
XX associated with MMIF such as neurological, hormonal, immune, inflammatory
XX or hyperproliferative disorder. Sequences AAH2191-268 represent chimeric
XX antisense phosphorothioate oligonucleotides used for inhibition of human
XX MMIF mRNA expression
XX
XX Sequence 20 BP; 7 A; 4 C; 8 G; 1 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 39 GGCAGGAGGACGACGAG 55
Db 2 GGCAGAAGGACGAGGAG 18
RESULT 1501
AAH99813
ID AAH99813 standard; DNA; 20 BP.
XX
XX AAH99813;
XX
XX 12-JUN-2001 (first entry)
XX
XX Immunostimulatory nucleic acid #929.
XX
XX Vaccine; cytostatic; virucidal; bactericidal; fungicidal; anti-parasitic;
XX immunostimulatory; tumour; viral infection; bacterial infection;
XX fungal infection; parasitic infection; cancer; asthma;
XX infectious disease; allergy; immune deficiency; phosphorothioate; ss.
XX
XX Synthetic.
XX
XX WO200122972-A2.
XX
XX 05-APR-2001.
XX
XX 25-SEP-2000; 2000WO-US026383.
XX
XX 25-SEP-1999; 99US-0156113P.
XX
XX 27-SEP-1999; 99US-0156135P.
XX
XX 23-AUG-2000; 2000US-0227436P.
XX
XX (IOWA ) UNIV IOWA RES FOUND.
XX (COLE-) COLEY PHARM GMBH.
```

```
XX Krieg AM, Schetter C, Vollmer J;
XX
XX WPI; 2001-273485/28.
XX
XX Vaccinating against tumors, infectious diseases, allergies and asthma
XX using immunostimulatory Py-rich and TG nucleic acids.
XX
XX Claim 101; Page 58; 338pp; English.
XX
XX The present invention relates to a method for stimulating an immune
XX response. The method comprises administering an immunostimulatory nucleic
XX acid to a non-rodent subject in sufficient quantity to stimulate an
XX immune response. The present sequence is one such immunostimulatory
XX nucleic acid. The immunostimulatory nucleic acids can be pyrimidine rich
XX (py-rich) or thymidine (T) rich. The method is used to vaccinate subjects
XX against tumour antigens, viral antigens (e.g. herpesviridae, retroviridae
XX and/or orthomyxoviridae), bacterial antigens (e.g. toxoplasma,
XX staphylococcus), fungal antigens and/or parasitic antigens. The method is
XX also useful for preventing cancer, asthma, infectious disease, allergy or
XX immune deficiency. The present sequence can also be used to redirect a
XX Th2 to a Th1 immune response and to activate immune cells. Note: the
XX present sequence may have a phosphorothioate backbone
XX
XX Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1547 GCCTTCGGTCTTCGTCG 1563
Db 1 GCCTTCGATCTTCGTTG 17
RESULT 1502
AAH48588/c
ID AAH48588 standard; DNA; 20 BP.
XX
XX AAH48588;
XX
XX 20-SEP-2001 (first entry)
XX
XX Human fascin associated primer SEQ ID 40.
XX
XX Fascin; regulatory sequence; human; dendritic cell; antiviral; tumor;
XX antibacterial; antifungal; antiparasitic; anti-allergic; neurological;
XX immunomodulatory; apoptotic; expression regulator; vaccine; allergen;
XX Creutzfeld-Jakob disease; Alzheimer's disease; gene therapy;
XX autoimmune disease; transplant rejection; primer; ss.
XX
XX Homo sapiens.
XX
XX WO200151631-A2.
XX
XX 19-JUL-2001.
XX
XX 12-JAN-2001; 2001WO-EP000362.
XX
XX 13-JAN-2000; 2000DE-01001169.
XX
XX 02-MAR-2000; 2000DE-01010188.
XX
XX (RESK/) RESKE-KUNZ A.
XX (ROSS/) ROSS X.
XX (ROSS/) ROSS R.
XX (BROS/) BROS M.
XX
XX Reske-Kunz A, Ross X, Ross R, Bros M;
XX
XX WPI; 2001-451858/48.
XX
XX New regulatory sequences from the fascin gene, useful for providing
```

PT dendritic cell-specific expression of e.g. antigens, e.g. for vaccination  
 PT against tumors and infections.

PS Claim 1d; Page 105; 117pp; German.

XX This invention describes novel regulatory sequences (A) derived from  
 CC human fascin that provide specific expression in dendritic cells (DC) and  
 CC which have antiviral, antibacterial, antifungal, antiparasitic, anti-  
 CC allergic, neurological, immunomodulatory and apoptotic activity. (A) are  
 CC used to regulate expression of antigens, immunoregulators, antisense  
 CC sequences etc. in DC-specific fashion. Recombinant DNA, vectors and host  
 CC cells that contain (A) are useful: (i) in vaccines against viruses,  
 CC bacteria, fungi, parasites, tumors, allergens and plagues in Creutzfeld-  
 CC Jakob and Alzheimer's disease; and (ii) for gene therapy of tumors,  
 CC allergies, infections, autoimmune diseases and transplant rejection. They  
 CC can also be provide specific expression of antigens and immunoregulators  
 CC in DC; for isolation and identification of cell factors and cis-elements  
 CC from regulatory sequences that mediate DC-specific expression; to  
 CC determine the degree of maturity of DC and to block transcription  
 CC factors, by providing binding sites in DC. (A) provide DC-specific  
 CC expression of nucleic acid under their control, allowing a more specific  
 CC regulation of the immune response and eliminating the long and laborious  
 CC purification of DC (since a complete leucocyte population may be  
 CC transformed), including transformation in vitro. This sequence represents  
 CC a primer associated with the human fascin gene described in the invention

XX Sequence 20 BP; 2 A; 4 C; 9 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 986 AGCCCGAGAACCTGCTC 1002  
 DB 17 AGCCCGAGAACCGCAC 1

RESULT 1503

AAc89128/c

ID AAC89128 standard; DNA; 20 BP.

AC AAC89128;

XX 07-MAR-2001 (first entry)

DE Canine retroviral PCR primer MLVIN5700+.

XX PCR primer; immunosuppressive; cytostatic; gene therapy; retrovirus;  
 KW canine; autoimmune disease; haematopoietic malignancy; malignant tumour;  
 KW ss.

XX Unidentified.

XX WO200070024-A2.

XX 23-NOV-2000.

PF 17-MAY-2000; 2000WO-EP004467.

PR 17-MAY-1999; 99EP-00401192.

PR 18-MAY-1999; 99EP-00401199.

XX (FRSA-) ETAB FR DU SANG.

XX Rigal D, Ghernati I, Corbine A, Darlix J;

XX WPI; 2001-016224/02.

XX New infectious retrovirus isolated from a canine cell line, useful for  
 PT producing medicaments to treat autoimmune diseases, hematopoietic  
 PT malignancies or malignant tumors and in diagnosis and gene therapy.

XX Claim 31; Fig 11; 131pp; English.

XX The present invention relates to a retrovirus of type C morphology, which  
 CC sediments in a sucrose gradient at a density of 1.16-1.18 g/l. The  
 CC retrovirus is infectious for canine cells and belongs to the oncovirinae  
 CC group. The present invention is a PCR primer for the retrovirus of the  
 CC present invention. The retrovirus can be included in pharmaceutical  
 CC compositions or medicaments to treat autoimmune diseases, hematopoietic  
 CC malignancies or malignant tumors, especially in humans. The retrovirus  
 CC can also be used in gene therapy to introduce a transgene into an animal,  
 CC especially a human

XX Sequence 20 BP; 3 A; 12 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 226 GAGAGTGGTGGTGGTGG 242

DB 20 GAGAGCGGTGGGGTGG 4

RESULT 1504

AAH76258

ID AAH76258 standard; DNA; 20 BP.

XX AAH76258;

XX 29-OCT-2001 (first entry)

XX Human GABA(A) receptor-associated protein specific primer GABA-R.

XX Pyrene; gene therapy; antiinflammatory; gene expression; interleukin;  
 KW hemoxygenase-1; prostaglandin G/H synthase-2; RANTES; TNF alpha; p78;  
 KW macrophage inflammatory protein; chemokine; growth regulated protein-1;  
 KW matrix metalloproteinase-9; migration inhibitory factor-related protein;  
 KW lysozyme; GABA(A) receptor-associated protein; interferon; SCO homolog-2;  
 KW transketolase; adenosine A2a receptor; CD37 antigen properdin P factor;  
 KW G-protein; Nef-associated factor-1; signal peptidase; PCR primer; ss.

XX Homo sapiens.

XX WO200151480-A1.

XX 19-JUL-2001.

PF 11-JAN-2001; 2001WO-JP0000082.

XX 13-JAN-2000; 2000JP-00004989.

PR 03-OCT-2000; 2000JP-00303711.

XX (TAKI ) TAKARA SHUZO CO LTD.

XX Enoki T, Yamashita S, Nishimura K, Sagawa H, Kato I;

XX WPI; 2001-514436/56.

XX Agent for correcting gene expression regulation error comprises pyrone  
 compound or dihydroxy compound.

XX Example 6; Page 77; 93pp; Japanese.

XX The invention provides an agent comprising a pyrone compound or dihydroxy  
 CC compound of specified formulae given in the specification. The agent is  
 CC used for correcting gene expression regulation errors. Errors in the  
 CC following genes may be corrected: IL-6, IL-10, hemoxygenase-1,  
 CC prostaglandin G/H synthase-2, macrophage inflammatory protein-1-alpha,  
 CC RANTES, IL-1alpha, IL-beta, TNF alpha, IL-7 receptor, macrophage  
 CC inflammatory protein -1beta, liver and activation-regulated chemokine,  
 CC macrophage-derived chemokine, macrophage inflammatory protein-2-beta,  
 CC macrophage inflammatory protein-2-alpha, growth regulated protein-1,  
 CC matrix metalloproteinase-9, migration inhibitory factor-related protein -  
 CC 8, lysozyme, GABA(A) receptor-associated protein, interferon-induced 17 -

CC kDa/15-kDa protein, interferon-inducible protein p78, SCO homolog-2,  
CC transketolase, adenosine A2a receptor, CD37 antigen preprotein P factor,  
CC regulator of G-protein signaling-2, Nef-associated factor-1, myeloid  
CC leukemia cell differentiation protein-1, signal peptidase complex, and  
CC also side-effects caused by them such as inflammation. Sequences AH76220  
CC -76280 represent PCR primers used in the course of the invention  
XX  
SQ Sequence 20 BP: 2 A: 4 C: 7 G: 7 T: 0 U: 0 Other:

Qy 917 TGTTCCTGTTCCAGCTG 933  
| | | | | | | | | |  
Db 4 TGTTCCTGGTACAGCTG 20

RESULT 1505  
AAF80165  
ID AAF80165 standard; DNA; 20 BP.  
XX  
XX AAF80165;  
XX  
XX 11-JUN-2001 (first entry)  
XX  
XX  
XX  
DE PCR primer used to amplify the left-hand GAL7 promoter region.  
XX  
XX Heavy chain variable region; llama; Malassezia furfur; dandruff;  
KW hair care; GAL7 promoter; PCR primer; ss.  
KW

Qy	1472	GGGAGCGGATCCACAA 1488
Db	1	GGGAGAGGATCCAAAA 17
RESULT 1506		
AAF69712/c		
ID	AAF69712	standard; DNA; 20 BP.
XX	AC	AAF69712;
XX	DT	18-APR-2001 (first entry)
XX	DE	Human IL4Ralpha gene PCR primer #48.
XX	KW	Polymorphism; human; interleukin 4 receptor-alpha; IL4R-alpha;
KW	KW	allergic disease; PCR primer; ss.
XX	OS	Homo sapiens.
XX	PN	WO200104270-A1.
XX	PD	18-JAN-2001.
XX	PF	13-JUL-2000; 2000WO-US019094.
XX	PR	13-JUL-1999; 99US-0143435P.
XX	PA	(GENA-) GENAISSANCE PHARM INC.
XX	PI	Chew A, Denton RR, Duda A, Nandabalan K, Stephens JC;
PI	PI	Windemuth AK;
XX	DR	WPI; 2001-103078/11.
XX	PT	New isolated polynucleotide useful for the identification of therapeutics
PT	PT	in allergic diseases is new.
XX	PS	Example 1; Page 61; 188pp; English.
XX	CC	The present invention relates to polymorphisms of the human interleukin 4
CC	CC	receptor-alpha gene (IL4R-alpha; see AAF57718 for the reference
CC	CC	sequence). Polynucleotides comprising polymorphic gene variants are
CC	CC	useful for therapeutic purposes. For example, where a patient may benefit
CC	CC	from expression of a particular IL4Ralpha protein isoform, an expression
CC	CC	vector encoding the isoform may be administered to the patient. It may
CC	CC	desirable to decrease or block expression of a particular IL4Ralpha
CC	CC	isogene, which may be done by turning off by transforming a targeted
CC	CC	organ, tissue or cell population with an expression vector that expresses
CC	CC	high levels of untranslatable mRNA for the isogene. Specific therapeutics
CC	CC	identified by these methods may be useful for allergic diseases. The
CC	CC	present sequence is a PCR primer for human IL4R-alpha
XX	SQ	Sequence 20 BP; 3 A; 4 C; 8 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. NO. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```
XX Human; Gene 216; chromosome 20p13-p12; antiasthmatic; anorectic;
KW antiinflammatory; gastrointestinal; gene therapy; vaccine; asthma;
KW obesity; inflammatory bowel disease; primer; ss.
OS Synthetic.
XX WO200178894-A2.
XX 25-OCT-2001.
XX 13-APR-2001; 2001WO-US012245.
XX 13-APR-2000; 2000US-00548797.
XX (GENO-) GENOME THERAPEUTICS CORP.
XX Keith T;
XX WPI; 2001-639428/73.
XX Isolated genes (Gene 216) from human chromosome 20p13-p12 and the
PT proteins they encode, useful for the prevention, diagnosis and treatment
PT of asthma, obesity and inflammatory bowel disease.
XX Example 10; Page 149; 520pp; English.
XX The invention relates to isolated genes (Gene 216) from human chromosome
CC 20p13-p12 and the proteins they encode. The nucleic acids and proteins
CC may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate Gene 216 expression. For example, the
CC nucleic acids (or vectors) and proteins may be used to treat disorders
CC associated with decreased expression by rectifying mutations or deletions
CC in a patient's genome that affect the activity of gene 216 by expressing
CC inactive proteins or to supplement the patients own production of Gene
CC 216 proteins. Additionally, the nucleic acids may be used to produce the
CC secreted Gene 216 protein, by inserting the nucleic acids into a host
CC cell and culturing the cell to express the protein. The nucleic acids and
CC complementary sequences may also be used as DNA probes in diagnostic
CC assays to detect and quantitate the presence of similar nucleic acid
CC sequences in samples and therefore which patients may be in need of
CC restorative therapy. The Gene 216 protein may also be used as antigens in
CC the production of antibodies against Gene 216 and in assays to identify
CC modulators of Gene 216 expression and activity. The anti-Gene 216
CC antibodies and antagonists may also be used to down regulate expression
CC and activity. The anti-Gene 216 antibodies may also be used as diagnostic
CC agents for detecting the presence of Gene 216 proteins in samples (e.g.
CC by enzyme linked immunosorbant assay or ELISA). Disorders that may be
CC prevented, diagnosed and/or treated by the above methods include, for
CC example asthma, obesity and inflammatory bowel disease. The present
CC sequence is that of a Gene 216 related primer used in examples of the
CC invention. The primers are used in the physical mapping of the gene
CC (ABZ72067-ABZ72088), polymorphism identification using single strand
CC conformational polymorphism (SSCP) analysis (ABZ72091-ABZ72184),
CC sequencing (ABZ72185-ABZ72268) and genotyping (ABZ72317-ABZ72362)
XX Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 538 CCATCTTTGACAAAGCC 554
Db ||| ||| ||| ||| ||| ||| |||
19 CCCTTCTGTGACAAAGCC 3
RESULT 1508
ABZ72122
ID ABZ72122 standard; DNA; 20 BP.
XX AC ABZ72122;
XX
```

```
DT 03-APR-2003 (first entry)
XX Gene 216 SSCP detection primer SEQ ID NO 94.
XX Human; Gene 216; chromosome 20p13-p12; antiasthmatic; anorectic;
KW antiinflammatory; gastrointestinal; gene therapy; vaccine; asthma;
KW obesity; inflammatory bowel disease; primer; ss.
XX Synthetic.
XX WO200178894-A2.
XX 25-OCT-2001.
XX 13-APR-2001; 2001WO-US012245.
XX 13-APR-2000; 2000US-00548797.
XX (GENO-) GENOME THERAPEUTICS CORP.
XX Keith T;
XX WPI; 2001-639428/73.
XX Isolated genes (Gene 216) from human chromosome 20p13-p12 and the
PT proteins they encode, useful for the prevention, diagnosis and treatment
PT of asthma, obesity and inflammatory bowel disease.
XX Example 10; Page 149; 520pp; English.
XX The invention relates to isolated genes (Gene 216) from human chromosome
CC 20p13-p12 and the proteins they encode. The nucleic acids and proteins
CC may be used in the prevention, diagnosis and treatment of diseases
CC associated with inappropriate Gene 216 expression. For example, the
CC nucleic acids (or vectors) and proteins may be used to treat disorders
CC associated with decreased expression by rectifying mutations or deletions
CC in a patient's genome that affect the activity of gene 216 by expressing
CC inactive proteins or to supplement the patients own production of Gene
CC 216 proteins. Additionally, the nucleic acids may be used to produce the
CC secreted Gene 216 protein, by inserting the nucleic acids into a host
CC cell and culturing the cell to express the protein. The nucleic acids and
CC complementary sequences may also be used as DNA probes in diagnostic
CC assays to detect and quantitate the presence of similar nucleic acid
CC sequences in samples and therefore which patients may be in need of
CC restorative therapy. The Gene 216 protein may also be used as antigens in
CC the production of antibodies against Gene 216 and in assays to identify
CC modulators of Gene 216 expression and activity. The anti-Gene 216
CC antibodies and antagonists may also be used to down regulate expression
CC and activity. The anti-Gene 216 antibodies may also be used as diagnostic
CC agents for detecting the presence of Gene 216 proteins in samples (e.g.
CC by enzyme linked immunosorbant assay or ELISA). Disorders that may be
CC prevented, diagnosed and/or treated by the above methods include, for
CC example asthma, obesity and inflammatory bowel disease. The present
CC sequence is that of a Gene 216 related primer used in examples of the
CC invention. The primers are used in the physical mapping of the gene
CC (ABZ72067-ABZ72088), polymorphism identification using single strand
CC conformational polymorphism (SSCP) analysis (ABZ72091-ABZ72184),
CC sequencing (ABZ72185-ABZ72268) and genotyping (ABZ72317-ABZ72362)
XX Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 538 CCATCTTTGACAAAGCC 554
Db ||| ||| ||| ||| ||| ||| |||
2 CCCTTCTGTGACAAAGCC 18
RESULT 1509
ABZ71117/c
ID ABS71117 standard; DNA; 20 BP.
```



XX AC ABS71117;  
 XX DT 27-NOV-2002 (first entry)  
 XX DE Rat GPCR ligand Bv8 cDNA PCR primer RBv8-WR2.  
 XX KW G-protein coupled receptor; GPCR; ZAQ; ZAQ; human; ZAQ; ZAQ; rat; ZAQ;  
 KW rZAQ1; rZAQ2; mouse; ISE receptor; m15E; GPR73; Bv8 protein;  
 KW digestive disorder; central nervous system disorder; CNS; diarrhoea;  
 KW bowel inflammation; constipation; food absorption disorder; nootropic;  
 KW Alzheimer's disease; Parkinson's disease; schizophrenia; laxative;  
 KW antiinflammatory; antidiarrhoeic; neuroleptic; neuroprotective; PCR;  
 KW primer; ss.  
 XX OS Rattus sp.  
 XX WO200262944-A2.  
 XX 15-AUG-2002.  
 XX PF 01-FEB-2002; 2002WO-JP000852.  
 XX PR 02-FEB-2001; 2001JP-00026820.  
 XX (TAKE ) TAKEDA CHEM IND LTD.  
 XX OHtaki T, Masuda Y, Takatsu Y, Watanabe T, Terao Y, Shintani Y;  
 PI Hinuma S;  
 XX WI; 2002-627537/67.  
 XX Screening of compounds modifying the binding of G-protein coupled  
 PT receptor protein ZAQ and related proteins to their ligands for use in  
 PT treatment and diagnosis of digestive disorders.  
 XX Example 5; Page 127; 197pp; Japanese.  
 XX The present invention relates to a screening method for compounds for  
 CC their ability to modify the binding of G-protein coupled receptor (GPCR)  
 CC protein ZAQ and related proteins (human ZAQ, human ZAQ, rat ZAQ  
 CC (rZAQ1), rZAQ2, human and mouse ISE (m15E) receptor, and mouse GPR73) to  
 CC their ligands (the mature form of human, mouse or rat Bv8 protein). The  
 CC receptor protein and ligand are contacted in the presence or absence of  
 CC the test compound. The compounds are useful in a drug composition for the  
 CC treatment, and prevention of digestive and central nervous system (CNS)  
 CC disorders, including bowel inflammation, diarrhoea, constipation, food  
 CC absorption disorders, Alzheimer's disease, Parkinson's disease and  
 CC schizophrenia. The present sequence represents a PCR primer used in the  
 CC examples of the present invention  
 XX Sequence 20 BP; 3 A; 7 C; 3 G; 7 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 862 CTGAAGCAGTACCTGGA 878  
 Db 19 CTGAAGCAGGAGCTGGA 3  
 RESULT 1510  
 AAH77194/c  
 ID AAH77194 standard; DNA; 20 BP.  
 XX AC AAH77194;  
 XX DT 07-AUG-2003 (revised)  
 XX 24-JAN-2002 (first entry)  
 DE PCR primer PV3 used to amplify HPV in human cervical cancer cells.  
 XX

KW Human; cervical cancer; human papilloma virus; PCR primer; PV3; SiHa;  
 KW HPV; Thermal cycling; AIDS; ss.  
 XX OS Human papillomavirus.  
 XX US6300124-B1.  
 XX 09-OCT-2001.  
 XX 02-NOV-1999; 99US-00432012.  
 XX 02-NOV-1999; 99US-00432012.  
 XX (MINU ) UNIV MINNESOTA.  
 XX Blumenfeld M, Bar-Cohen A, Cibuzar GT, Schiller P, Arik M;  
 XX WI; 2002-009526/01.  
 XX Microscopic slide temperature control apparatus for medical diagnosis  
 PT comprises coupling resistive heating element between the connection pads  
 PT provided at opposing ends of slide.  
 XX Example 3; Col 27; 25pp; English.  
 XX The sequence represents PCR primer PV3. The primer was used in the  
 CC invention to amplify DNA from cells of the stable human cervical cancer  
 CC cell line SiHa, containing on integrated copy of human papilloma virus  
 CC (HPV) type 16 per human genome. The invention relates to a novel thermal  
 CC cycling device for regulating the temperature of a biological sample on a  
 CC flat substrate. The invention also includes an apparatus comprising the  
 CC flat substrate for use in the thermal cycling device. The invention is  
 CC useful for medical diagnosis of diseases such as AIDS, also for  
 CC amplification of nucleic acids in biological samples. The invention has  
 CC the advantage that it enhances operatively as the heat resisting element  
 CC is directly coupled to the microscopic slide, and reduces costs as the  
 CC use of a heat sink is eliminated. (Updated on 07-AUG-2003 to correct OS  
 CC field.)  
 XX Sequence 20 BP; 2 A; 4 C; 6 G; 8 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1308 CAAGACATACACTACC 1324  
 Db 19 CAAGACATACATCGACC 3  
 RESULT 1511  
 AAL46967/c  
 ID AAL46967 standard; DNA; 20 BP.  
 XX AC AAL46967;  
 XX DT 30-AUG-2002 (first entry)  
 XX Rice lesion inhibitor protein Spi7 coding sequence PCR primer #9.  
 DE Rice; lesion formation inhibition; heat stress; agriculture; Spi7;  
 KW transgenic; plant; horticulture; PCR; primer; ss.  
 XX Oryza sativa.  
 XX WO200233092-A1.  
 XX 25-APR-2002.  
 XX 18-OCT-2001; 2001WO-JP009153.  
 XX 18-OCT-2000; 2000JP-00318557.  
 XX

PA (NAAG-) NAT INST AGROBIOLOGICAL SCI.  
XX  
PI Yano M, Yamanouchi U;  
XX  
XX WPI; 2002-372312/40.  
XX  
XX Rice-originated gene, Spl7, that inhibits lesion formation and is  
PT applicable in improving heat stress of plants thus leading to prevention  
PT of lesion formation, for developing new breeds of plants for agriculture  
PT and horticulture.  
XX  
XX Example 6; Page 47; 53pp; Japanese.  
XX  
XX The present invention provides the protein and coding sequences of rice  
CC lesion formation inhibitor Spl7. The protein improves the heat stress of  
CC the plant, and can be used in the development of new breeds of plants for  
CC agriculture and horticulture. The present sequence is a PCR primer used  
CC to isolate the coding sequence of the invention  
XX  
XX Sequence 20 BP; 1 A; 6 C; 8 G; 5 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 379 TCAGCCACGCTCTCGGA 395  
DB 20 TCAGCCACGCGCCACGGA 4  
RESULT 1512  
AAS97855  
ID AAS97855 standard; DNA; 20 BP.  
XX  
AC AAS97855;  
XX  
DT 12-MAR-2002 (first entry)  
XX  
DE Murine SAC1 gene-specific oligonucleotide PCR primer #422.  
XX  
KW Human; mouse; SAC1; carbohydrate; sweetener; ethanol; alcoholism; ss;  
KW obesity; diabetes; transgenic embryo; body tissue; body fluid; pancreas;  
KW blood; tongue; PCR primer; anorectic; antidiabetic; gene therapy;  
KW protein replacement therapy.  
XX  
XX Mus sp.  
XX  
XX WO200183749-A2.  
XX  
XX 08-NOV-2001.  
XX  
XX 25-APR-2001; 2001WO-US013387.  
XX  
XX 28-APR-2000; 2000US-0200794P.  
XX  
XX 28-JUL-2000; 2000US-0221419P.  
XX  
XX 10-NOV-2000; 2000US-0247443P.  
XX  
XX (WARN ) WARNER LAMBERT CO.  
XX  
XX (WONE-) MONELL CHEM SENSES CENT.  
XX  
XX Bachmanov AA, Beauchamp GK, Chatterjee A, De Jong PU, Li S, Li X;  
XX Ohmen JD, Reed DR, Ross D, Tordoff MG;  
XX  
XX WPI; 2002-075162/10.  
XX  
XX Novel isolated polypeptide comprising variant form of mouse or human SAC1  
PT polypeptide, and is associated with altered preference for carbohydrates  
PT or other sweeteners, useful for preventing obesity, diabetes, alcoholism.  
XX  
XX Claim 14; Page 90; 239pp; English.  
XX  
XX The invention relates to an isolated polypeptide, comprising a variant  
CC form of mouse or human SAC1 polypeptide. The variant form is associated  
CC

CC with altered preference for carbohydrates, other sweeteners or ethanol.  
CC The polypeptide and its associated DNA sequence can be produced by  
CC recombinant techniques and is useful for preventing obesity, diabetes or  
CC alcoholism associated with SAC1 expression. The sequences are useful in  
CC screening for drugs and sweeteners. Recombinant cell lines and transgenic  
CC embryos may be used in screening for and identifying agents that induce  
CC or repress function of SAC1. Predisposition to diabetes, obesity or  
CC alcoholism can be ascertained by testing any fluid or tissue of a human  
CC (such as blood, pancreas or tongue) for sequence variations of the SAC1  
CC gene. A sequence variation of the SAC1 locus may indicate a  
CC predisposition to diabetes, obesity and/or alcoholism and may provide a  
CC diagnostic mark. The polynucleotide can be detected in a biological  
CC sample by contacting the DNA with a probe to form a hybridisation complex  
CC which is then detected. The sequences represent cDNA encoding human and  
CC mouse SAC1 polypeptides and PCR primers specific for the SAC1 genes  
XX  
XX Sequence 20 BP; 6 A; 3 C; 8 G; 3 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 360 TGGGGAGAGTGACACGAG 376  
DB 1 TGGGGAGACGTTACCAGG 17  
RESULT 1513  
ABN89264  
ID ABN89264 standard; DNA; 20 BP.  
XX  
AC ABN89264;  
XX  
XX 29-AUG-2002 (first entry)  
XX  
XX Human Talin antisense phosphorothioate oligonucleotide SEQ ID NO:77.  
XX  
XX Human; Talin; antimicrobial; antiinflammatory; cytostatic; inhibitor;  
KW antisense gene therapy; infection; inflammation; Talin inhibitor; tumour;  
KW antisense oligonucleotide; phosphorothioate; ss.  
XX  
XX Homo sapiens.  
XX  
XX Key Location/Qualifiers  
FT modified\_base 1..20  
FT /tag= b  
FT /mod\_base= OTHER  
FT /note= "phosphorothioate backbone"  
FT modified\_base 1..5  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 16..20  
FT /tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
XX  
XX US6372492-B1.  
XX  
XX 16-APR-2002.  
XX  
XX 30-OCT-2000; 2000US-00702251.  
XX  
XX 30-OCT-2000; 2000US-00702251.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Bennett CF, Cowsett LM;  
XX  
XX WPI; 2002-470102/50.  
XX  
XX New antisense compound useful for inhibiting expression of Talin and for  
PT preventing or delaying infection, inflammation or tumor formation.  
PT

XX PS Claim 14; Col 42; 46pp; English.

XX CC The present invention describes an antisense compound (I), 16 to 30 bases

XX CC in length targeted to specific base regions of a nucleic acid encoding

XX CC human Talin. Also described: (a) an antisense compound up to 30 bases in

XX CC length which inhibits the expression of human Talin; (b) a composition

XX CC (II) comprising (I) or (a); and (c) inhibiting the expression of human

XX CC Talin in human cells or tissues comprising contacting the cells or

XX CC tissues in vitro with (I) or (a). (I) has antimicrobial, antiinflammatory

XX CC and cytoskeletal activities, and can be used in antisense gene therapy and

XX CC as a Talin expression inhibitor. (I) can be used: to inhibit the

XX CC expression of human Talin in human cells or tissues; to prevent or delay

XX CC infection, inflammation or tumour formation; and in diagnostics.

XX CC therapeutics, prophylaxis, and in research reagents and kits. The present

XX CC sequence represents a human Talin antisense chimeric phosphorothioate

XX CC oligonucleotide, having 2'-methoxyethyl (2'-MOE) wings of 5 nucleotides

XX CC at the 5' and 3' ends and a 10 nucleotide deoxy gap in the middle, which

XX CC is used in an example from the present invention

XX SQ Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1571 ACTCAGGCGGCCGCT 1587

||||| ||||| ||||| ||||| |||||

DB 4 ACTCTGGCAGGCCATCT 20

RESULT 1514

AB578535

ID AB578535 standard; DNA; 20 BP.

AC AB578535;

XX 13-DEC-2002 (first entry)

XX Angiogenesis inhibitory oligonucleotide #1019.

XX Angiogenesis inhibitor; ss; angiogenesis; solid tumour growth;

KW tumour metastasis; precancerous lesion; rheumatoid arthritis; psoriasis;

KW diabetic retinopathy; retinopathy of prematurity; macular degeneration;

KW corneal graft rejection; neovascular glaucoma; retrolental fibroplasia;

KW rubeosis; Osler-Weber Syndrome; myocardial angiogenesis;

KW plaque neovascularisation; telangiectasia; haemophilic joint;

KW angiofibroma; wound granulation; intestinal adhesion; atherosclerosis;

KW scleroderma; hypertrophic scar.

XX Synthetic.

XX WO200253141-A2.

XX 11-JUL-2002.

XX 14-DEC-2001; 2001WO-US048458.

XX 14-DEC-2000; 2000US-0255534P.

XX (COLE-) COLEY PHARM GROUP INC.

XX Bratzler RL;

XX WPI; 2002-566690/60.

XX Inhibiting angiogenesis in a subject, involves administering at least one

PT antiangiogenic nucleic acid molecule to the subject.

XX Claim 2; Page 37; 276pp; English.

XX The invention relates to inhibiting angiogenesis in a subject, comprising

CC administering at least one antiangiogenic nucleic acid molecule. Also

CC included is a kit comprising a first container housing the antiangiogenic

CC nucleic acids, and instructions for administering them to a subject

CC having a condition characterised by unwanted angiogenesis. The method is

CC useful for inhibiting angiogenesis associated with solid tumour growth,

CC tumour metastasis, precancerous lesion, rheumatoid arthritis, psoriasis,

CC diabetic retinopathy, retinopathy of prematurity, macular degeneration,

CC corneal graft rejection, neovascular glaucoma, retrolental fibroplasia,

CC rubeosis, Osler-Weber Syndrome, myocardial angiogenesis, plaque

CC neovascularisation, telangiectasia, haemophilic joints, angiofibroma,

CC wound granulation, intestinal adhesions, atherosclerosis, scleroderma and

CC hypertrophic scars. The present sequence is an antiangiogenic nucleic

XX acid of the invention

SQ Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1547 GCCTTCGCTCTCGTCG 1563

||||| ||||| ||||| ||||| |||||

DB 1 GCCTTCGATCTCGTTG 17

RESULT 1515

ABK41307/c

ID ABK41307 standard; DNA; 20 BP.

XX ABK41307;

XX 21-MAY-2002 (first entry)

XX Human LSR gene biallelic marker upstream PCR primer #2.

XX Human; obesity associated-biallelic marker; ss; LSR; USF2; PCR; primer;

KW drug response; hyperuricaemia; digestive pathology; hypertension; cancer;

KW hepatic function disorder; cardiovascular disease; hyperlipidaemia;

KW insulin disorder; atheromatous disease; cardiac insufficiency; obesity.

XX Homo sapiens.

XX WO200206525-A2.

XX 24-JAN-2002.

XX 28-JUN-2001; 2001WO-IB001477.

XX 18-JUL-2000; 2000US-0219704P.

XX (GEST ) GENSET.

XX Cohen D, Blumenfeld M, Chumakov I, Abderrahim H, Bihain B;

XX WPI; 2002-155043/20.

XX Set of novel map-related biallelic markers, preferably located on obesity

PT disorder-associated chromosomal regions on chromosomes 3, 10 and 19, allele

PT useful, for e.g. detecting statistical correlations between marker allele

PT and a phenotype.

XX Disclosure; Page 307; 311pp; English.

XX The invention relates to a set of novel map-related biallelic markers,

CC preferably located on obesity disorder-associated chromosomal regions on

CC chromosomes 3, 10 and 19. The markers are useful for genotyping or

CC estimating the frequency of an allele in a population, for detecting an

CC association between a genotype or haplotype and a phenotype, e.g. a

CC disease involving drug responses, obesity or disorders related to

CC obesity, such as hyperuricaemia, digestive pathology, hepatic function

CC disorders, cancer, cardiovascular disease, hypertension, hyperlipidaemia,

CC insulin disorders, atheromatous disease and cardiac insufficiency. The

CC markers are useful for detecting a statistical correlation between a

CC biallelic marker allele and a phenotype and/or between a biallelic marker



PR 10-AUG-2001; 2001US-0311754P.  
XX 17-AUG-2001; 2001US-031331P.  
XX  
PA (CURA-) CURAGEN CORP.  
XX  
PI Alsbrook JP, Tchernev V, Liu X, Spytek KA, Zerhusen B;  
PI Patturajan M, Grosse WM, Lepley DM, Burgess CE, Shimkets R;  
PI Szekeres E, Vernet CAM, Li L, Caeman SJ, Boldog F, Gorman L;  
PI Gangolli EA, Fernandes E, Rieger D, Edinger S, Gunther E, Millet I;  
PI Sciore P, Ellerman K, Macdougall J, Smithson G;  
XX WPI; 2002-508801/54.  
XX  
XX New NOVX polypeptides and polynucleotides, useful in gene therapy,  
PT particularly for treating or preventing cardiomyopathy, atherosclerosis,  
PT diabetes, Crohn's disease, hemophilia or cancer in humans.  
XX  
XX Example 2; Page 254; 391pp; English.  
XX  
XX The present invention relates to the isolation of novel human proteins  
CC referred to as NOVX, and the polynucleotide sequences encoding them. The  
CC NOVX proteins of the invention include NOV1-NOV13. NOVX proteins, NOVX  
CC nucleic acids and antibodies are useful for treating or preventing a NOVX  
CC associated disorder, or alleviating a pathological state in a subject,  
CC particularly humans. Such disorders include cardiomyopathy,  
CC atherosclerosis, diabetes, cancer (e.g. adenocarcinoma, lymphoma,  
CC prostate cancer, uterus cancer), disorders related to cell signal  
CC processing and metabolic pathways, disorders of the neuro-olfactory  
CC system (e.g. those induced by trauma, surgery and/or neoplastic  
CC disorders), acquired immunodeficiency syndrome (AIDS), inflammatory  
CC disorders (e.g. asthma) obesity, anorexia, cancer-associated cachexia,  
CC neurodegenerative disorders (e.g. Alzheimer's disease, Parkinson's  
CC disease), immune disorders, graft versus host disease, Crohn's disease,  
CC multiple sclerosis, haemophilia, idiopathic thrombocytopenic purpura, and  
CC infectious diseases (e.g. bacterial, fungal, protozoal or viral  
CC infections). The polynucleotide sequences are also useful in gene  
CC therapy. The present sequence represents a real time quantitative (RTQ) -  
CC PCR primer used in NOVX expression studies  
XX  
XX SQ Sequence 20 BP; 10 A; 3 C; 5 G; 2 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
Qy 1240 TTGATCTTCCTGATCTT 1256  
Db 18 TTGATCTTCGCAATTT 2  
  
RESULT 1518  
AAL40400  
ID AAL40400 standard; DNA; 20 BP.  
XX  
AC AAL40400;  
XX  
XX  
DT 19-SEP-2002 (first entry)  
XX  
DE Mouse caspase 6 antisense inhibition related oligo SEQ ID No 119.  
XX  
XX Muscular; cytosolic; nontropic; neuroprotective; ophthalmological;  
XX antilipemic; osteopathic; caspase 6; Rieger's syndrome; bone metabolism;  
XX ataxia telangiectasia; hyperproliferative disorder; cholesterol disorder;  
XX haematopoietic disorder; cancer; neurological; Alzheimer's disease;  
XX apoptotic; mouse; murine; ds.  
XX  
OS Mus musculus.  
XX  
XX WO200229066-A1.  
PN  
XX  
XX 11-APR-2002.  
PD  
XX  
XX 03-OCT-2001; 2001WO-US030871.  
PF

XX 04-OCT-2000; 2000US-00679299.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Brown-Driver VL, Zhang H, Watt AT;  
XX WPI; 2002-471315/50.  
XX  
XX An antisense oligonucleotide of 8 to 50 nucleotides in length that  
PT inhibits caspase 6, is useful for treating Rieger's syndrome.  
PT  
XX  
XX Claim 3; Page 92; 141pp; English.  
XX  
XX The invention relates to an antisense oligonucleotide compound of 8 to 50  
CC nucleotides in length that is targeted to a nucleic acid molecule  
CC encoding caspase 6, where the oligonucleotide specifically hybridises  
CC with and inhibits the expression of caspase 6. The oligonucleotide of the  
CC invention specifically hybridises to and inhibits expression of caspase 6  
CC in cells or tissues. The oligonucleotides can be administered  
CC therapeutically or prophylactically to treat an animal having a disease  
CC or condition associated with caspase 6, such as Rieger's syndrome or  
CC ataxia telangiectasia, hyperproliferative disorder, a haematopoietic  
CC disorder, a bone metabolism or cholesterol disorder, various types of  
CC cancer, neurological conditions such as Alzheimer's disease and other de-  
CC regulated apoptotic pathological conditions. This polynucleotide sequence  
CC represents a mouse caspase 6 oligonucleotide relating to the invention.  
CC NOTE: This phosphorothioate oligonucleotide sequence has 2'-MOE wings and  
XX a deoxy gap  
XX  
XX SQ Sequence 20 BP; 4 A; 7 C; 6 G; 3 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
Qy 211 CAGATAGCCTCGATGA 227  
Db 3 CCGACAGCCTCGATGA 19  
  
RESULT 1519  
ABS73952  
ID ABS73952 standard; DNA; 20 BP.  
XX  
AC ABS73952;  
XX  
XX 06-DEC-2002 (first entry)  
XX  
XX Human cytohesin-1 3' UTR antisense oligonucleotide, ISIS#111045.  
XX  
XX Human; antisense; cytohesin-1; guanine nucleotide exchange protein; ARF;  
XX ADP ribosylation factor; inflammation; antiinflammatory; tumour;  
XX cytosolic; ss.  
XX  
OS Homo sapiens.  
XX  
XX WO200268584-A2.  
PN  
XX  
XX 06-SEP-2002.  
XX  
XX 30-OCT-2001; 2001WO-US047583.  
PP  
XX  
XX 22-FEB-2001; 2001US-00791243.  
PR  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX (BOEH ) BOEHRINGER INGELHEIM PHARM INC.  
XX  
XX Bennett CF, Rothlein R, Kishimoto TK, Cowsert LM;  
XX WPI; 2002-723198/78.  
XX  
XX New antisense oligonucleotide encoding human cytohesin-1, useful for  
PT

PT preventing or treating a disease or condition associated with cytohesin-1  
PT expression e.g. tumor or inflammation.

XX Example 15; Page 81; 107pp; English.

XX The invention relates to a new antisense compound, comprising 8-30  
CC nucleobases targeted to a nucleic acid molecule encoding human cytohesin-  
CC 1, specifically hybridizes with, and inhibits the expression of, human  
CC cytohesin-1, a guanine nucleotide exchange protein for ARF (ADP  
CC ribosylation factor). The antisense compound may be used in a  
CC pharmaceutical composition for inhibiting the expression of cytohesin-1  
CC in human cells or tissues, and in treating a disease or condition  
CC associated with cytohesin-1 by administering to the human the antisense  
CC compound e.g. tumour or inflammation. The antisense compound is also  
CC useful for diagnostics, therapeutics, prophylaxis and as research  
CC reagents and kits. The present sequence is an antisense oligonucleotide  
CC targeting human cytohesin-1

XX Sequence 20 BP; 1 A; 11 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 733 GCACCTGCACGCCCAT 749

Db 4 GCGCCTGCACGCCCAT 20

RESULT 1520

ABL43708

ID ABL43708 standard; DNA; 20 BP.

XX ABL43708;

XX 11-APR-2002 (first entry)

XX Human chromosome 1p36-35 PCR primer SEQ ID NO:752.

XX Human; chromosome 1p36-35; chromosome 21q22.1; genetic analysis; genome;  
KW PCR primer; ss.  
OS Homo sapiens.  
XX JP2001321190-A.  
XX 20-NOV-2001.  
XX 12-MAR-2001; 2001JP-00068285.  
XX 10-MAR-2000; 2000JP-00066716.  
XX (RIKA ) RIKAGAKU KENKYUSHO.  
PA (GENO-) GENOTEX YG.  
XX WPI; 2002-144136/19.

XX Arraying genome clones.

XX Claim 4; Page 19; 528pp; Japanese.

XX The present invention describes a method of arraying genome clones. The  
CC method comprises: (a) clones of the genomic libraries contained in  
CC multiwell plates numbered for discrimination are mixed in each of the  
CC multiwell plates; (b) a primer designed based on the chromosome marker  
CC sequence is added to the mixture to carry out an amplification reaction;  
CC (c) a signal corresponding to the marker is detected from the resultant  
CC amplified product to specify the discrimination Nos. of the multiwell  
CC plates containing the clones having said marker sequence; (d) the order  
CC of the markers is changed so that the same discrimination Nos. succeed to  
CC the maximum in the specified discrimination Nos. to array the multiwell  
CC plates; (e) the clones in the multiwell plates of the specified  
CC discrimination Nos. are mixed respectively in each wells of longitudinal

CC and lateral directions; (f) the mixed clones are cultured and the  
CC resultant cultures are amplified by using the above primer; (g) signals  
CC are detected from the amplified products; (h) the clones in the multiwell  
CC plates are specified from the detected result; and (i) the clones are  
CC reconstituted as the positions on the chromosome and arrayed. The  
CC microarray is useful for gene analysis. ABL42957 to ABL45322 represent  
CC PCR primers for human chromosome 1p36-35 DNA, and ABL45323 to ABL45634  
CC represent PCR primers for human chromosome 21q22.1, which are  
CC specifically claimed for use in the present invention

XX Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 479 CACTACCATCTGACATC 495

Db 2 CACTACCATCTGACATC 18

RESULT 1521

AAD37172/c

ID AAD37172 standard; DNA; 20 BP.

XX AAD37172;

XX 21-AUG-2002 (first entry)

XX Human MEK4 antisense oligonucleotide, ISIS #123107.

XX Human; MEK4 modulation; mitogen-activated protein kinase 4; MTK1;  
KW MAP3K4; MAP three kinase 1; MAP/ERK kinase 4; MAPKKK4; cycostatic;  
KW prophylaxis; immunological; hyperproliferative disorder; cancer; therapy;  
XX antisense; inflammatory; phosphorothioate backbone; ss.

OS Homo sapiens.

XX Synthetic.

PH Key Location/Qualifiers

FT modified\_base 1..20

FT /\*tag= a

FT /mod\_base= OTHER

FT /note= "Phosphorothioate backbone"

FT modified\_base 1..5

FT /\*tag= b

FT /mod\_base= OTHER

FT modified\_base 6

FT /\*tag= d

FT /mod\_base= m5c

FT modified\_base 7

FT /\*tag= e

FT /mod\_base= m5c

FT modified\_base 12

FT /\*tag= f

FT /mod\_base= m5c

FT modified\_base 15

FT /\*tag= g

FT /mod\_base= m5c

FT modified\_base 16..20

FT /\*tag= c

FT /mod\_base= OTHER

FT modified\_base 18

FT /\*tag= h

FT /mod\_base= m5c

FT modified\_base 20

FT /\*tag= i

FT /mod\_base= m5c

XX WO20027033-A1.

XX

PD 04-APR-2002.  
XX  
XX  
XX 28-SEP-2001; 2001WO-US030549.  
XX  
XX 29-SEP-2000; 2000US-00676436.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX  
XX Ward DT, Gaarde WA, Monia BP, Wyatt JR;  
XX  
XX WPI; 2002-416486/44.  
XX  
XX New antisense compound targeted to nucleic acid encoding mitogen-  
PT activated protein kinase 4, useful for treating immunologic disorder,  
PT inflammatory disorder or cancer.  
XX  
XX Claim 3; Page 92; 132pp; English.  
XX  
XX The present invention relates to antisense compounds, compositions and  
CC methods for modulating the expression of MEK4 (also referred as mitogen-  
CC activated protein kinase 4; MAP3K4; MAP three kinase 1; MAP/ERK  
CC kinase 4; MAPKK4; MTK1). The antisense oligos are useful for  
CC inhibiting the expression of MEK4 in cells or tissues. They are also  
CC useful for treating an animal having a disease or condition associated  
CC with MEK4 such as immunological, inflammatory, hyperproliferative  
CC disorder or cancer. Sequences of the invention are also useful for  
CC diagnostics, therapeutics, prophylaxis and as research reagents and kits.  
CC They are also useful in antisense therapy. The present sequence is an  
CC antisense oligonucleotide targetted to human MEK4 DNA. This sequence is  
CC used in the exemplification of the invention  
XX  
XX Sequence 20 BP; 4 A; 6 C; 5 G; 5 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 150 GCAGCTGTCATGACAC 166  
DB 18 GCAGTTGTCAGGACAC 2  
RESULT 1522  
ABT06434/C  
ID ABT06434 standard; DNA; 20 BP.  
XX  
XX AC ABT06434;  
XX  
XX 07-NOV-2002 (first entry)  
XX  
XX Cyclin 14-3-3 sigma gene PCR primer #14.  
XX  
XX Human; methylated gene; methylation; breast cancer; marker; WT-1;  
KW cell proliferative disorder; TWIST; HoxA5; NES-1; RARbeta; cyclin D2;  
KW retinoic acid receptor beta; oestrogen receptor; Wilms' tumour;  
KW 14.3.3 sigma; HIN-1; RASSF1A; tumour suppressor gene; hypermethylation;  
KW PCR; primer; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200259347-A2.  
XX  
XX 01-AUG-2002.  
XX  
XX 28-JAN-2002; 2002WO-US002455.  
XX  
XX 26-JAN-2001; 2001US-00771357.  
XX  
XX (UYJO ) UNIV JOHNS HOPKINS SCHOOL MEDICINE.  
XX  
XX Sukumar S, Evron E, Dooley WC, Sacchi N, Davidson N, Fackler MJ;  
PI  
XX WPI; 2002-599803/64.  
XX  
XX

XX  
XX Diagnosing and/or determining a predisposition to a cellular  
PT proliferative disorder of breast tissue, in particular breast cancer, by  
PT determining the state of methylation of one or more nucleic acids  
PT isolated from the subject.  
XX  
XX Claim 12; Page 46; 115pp; English.  
XX  
XX The present invention relates to a method of diagnosing a cellular  
CC proliferative disorder of breast tissue, which involves determining the  
CC state of methylation of one or more nucleic acids isolated from the  
CC subject, where the state of methylation of the nucleic acids as compared  
CC with a state of methylation from a subject not having the cellular  
CC proliferative disorder of breast tissue is indicative of a cellular  
CC proliferative disorder of breast tissue in the subject. The nucleic acids  
CC may be TWIST, HoxA5, NES-1, retinoic acid receptor beta (RARbeta),  
CC oestrogen receptor, cyclin D2, Wilms' tumour gene (WT-1), 14.3.3 sigma,  
CC HIN-1 or RASSF1A. The method is useful for diagnosing and/or determining  
CC a predisposition to a cellular proliferative disorder, in particular  
CC breast cancer including ductal carcinoma in situ, lobular carcinoma,  
CC colloid carcinoma, tubular carcinoma, medullary carcinoma, metaplastic  
CC carcinoma, intraductal carcinoma in situ, lobular carcinoma in situ and  
CC papillary carcinoma in situ. The present sequence is a primer used in the  
CC exemplification of the invention  
XX  
XX Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 843 TGAGTACTCGACAGG 859  
DB 18 TGAGTACCGGAGGAGG 2  
RESULT 1523  
ABZ30969  
ID ABZ30969 standard; DNA; 20 BP.  
XX  
XX AC ABZ30969;  
XX  
XX 30-JAN-2003 (first entry)  
XX  
XX Candida albicans GRACE strain PCR primer SEQ ID NO 5188.  
XX  
XX Fungus; yeast; tetracyclin; promoter; GRACE strain; biosynthesis;  
KW signal transduction; DNA replication; cell division; growth;  
KW proliferation; Candida albicans; fungicide; antifungal; PCR; primer; ss.  
XX  
XX Candida albicans.  
XX  
XX WO200253728-A2.  
XX  
XX 11-JUL-2002.  
XX  
XX 26-DEC-2001; 2001WO-US049486.  
XX  
XX 29-DEC-2000; 2000US-0259128P.  
XX  
XX 20-FEB-2001; 2001US-00792024.  
XX  
XX 22-AUG-2001; 2001US-0314050P.  
XX  
XX (ELIT-) ELITRA PHARM INC.  
XX  
XX Roemer T, Jiang B, Boone C, Bussey H, Ohlsen XL;  
XX  
XX WPI; 2002-566694/60.  
XX  
XX Constructing strains for identifying gene products as effective targets  
PT for therapeutic intervention, by inactivating in the strain one allele of  
PT a gene and placing other allele of the gene under conditional expression.  
XX  
XX Claim 36; SEQ ID NO 5188; 167pp + Sequence Listing; English.  
PS

XX The invention relates to constructing (M1) a strain of diploid fungal  
 CC cells in which both alleles of a gene are modified, comprising modifying  
 CC one allele by insertion or replacement by a cassette having an  
 CC expressible selectable marker and modifying other allele by  
 CC recombination, of a promoter replacement fragment with a heterologous  
 CC promoter, so that expression of the second allele is regulated by the  
 CC promoter. (M1) is useful for constructing a strain of diploid fungal  
 CC cells in which both alleles of a gene are modified. The diploid fungal  
 CC cells having both alleles modified are useful for identifying a gene that  
 CC is essential to the survival and/or pathogenicity of a fungus, a gene that  
 CC that contributes to the virulence and/or pathogenicity of a fungus, a gene  
 CC agent, an antifungal agent that inhibits the growth of a diploid fungus  
 CC and for identifying a therapeutic agent for treatment of a mammalian  
 CC disease. (M1) is useful for identifying a compound which modulates the  
 CC activity of a gene product, preferably enzymatic activity, carbon  
 CC compound catabolism, biosynthetic, transporter, transcriptional,  
 CC translational, signal transduction, DNA replication and cell division  
 CC activity, to inhibit growth or proliferation of C. albicans cells and for  
 CC treating infection by C. albicans. The present sequence is that of a PCR  
 CC primer used in the method of the invention. Note: The sequence data for  
 CC this patent is not represented in the printed specification but is based  
 CC on sequence information supplied to Derwent by the European Patent Office  
 XX  
 SQ Sequence 20 BP; 3 A; 7 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1717 CTGAGCCATGTTCACCT 1733  
 DB 4 CTGAGCCCTGTGCACCT 20

RESULT 1524  
 ABZ31379  
 ID ABZ31379 standard; DNA; 20 BP.  
 XX  
 AC ABZ31379;  
 XX  
 DT 30-JAN-2003 (first entry)  
 XX  
 DE Candida albicans GRACE strain PCR primer SEQ ID NO 5598.  
 XX  
 KW Fungus; yeast; tetracycline; promoter; GRACE strain; biosynthesis;  
 KW signal transduction; DNA replication; cell division; growth;  
 KW proliferation; Candida albicans; fungicide; antifungal; PCR; primer; ss.  
 XX  
 OS Candida albicans.  
 XX  
 PN WO200253728-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 26-DEC-2001; 2001WO-US049486.  
 XX  
 PR 29-DEC-2000; 2000US-0259128P.  
 PR 20-FEB-2001; 2001US-00792024.  
 PR 22-AUG-2001; 2001US-0314050P.  
 XX  
 PA (ELIT-) ELITRA PHARM INC.  
 XX  
 PI Roemer T, Jiang B, Boone C, Bussey H, Ohlsen KL;  
 XX WPI; 2002-566694/60.  
 DR  
 XX Constructing strains for identifying gene products as effective targets  
 PT for therapeutic intervention, by inactivating in the strain one allele of  
 PT a gene and placing other allele of the gene under conditional expression.  
 XX

PS Claim 36; SEQ ID NO 5598; 167pp + Sequence Listing; English.  
 XX  
 CC The invention relates to constructing (M1) a strain of diploid fungal  
 CC cells in which both alleles of a gene are modified, comprising modifying  
 CC one allele by insertion or replacement by a cassette having an  
 CC expressible selectable marker and modifying other allele by  
 CC recombination, of a promoter replacement fragment with a heterologous  
 CC promoter, so that expression of the second allele is regulated by the  
 CC promoter. (M1) is useful for constructing a strain of diploid fungal  
 CC cells in which both alleles of a gene are modified. The diploid fungal  
 CC cells having both alleles modified are useful for identifying a gene that  
 CC is essential to the survival and/or pathogenicity of a fungus, a gene that  
 CC that contributes to the virulence and/or pathogenicity of a fungus, a gene  
 CC agent, an antifungal agent that inhibits the growth of a diploid fungus  
 CC and for identifying a therapeutic agent for treatment of a mammalian  
 CC disease. (M1) is useful for identifying a compound which modulates the  
 CC activity of a gene product, preferably enzymatic activity, carbon  
 CC compound catabolism, biosynthetic, transporter, transcriptional,  
 CC translational, signal transduction, DNA replication and cell division  
 CC activity, to inhibit growth or proliferation of C. albicans cells and for  
 CC treating infection by C. albicans. The present sequence is that of a PCR  
 CC primer used in the method of the invention. Note: The sequence data for  
 CC this patent is not represented in the printed specification but is based  
 CC on sequence information supplied to Derwent by the European Patent Office  
 XX  
 SQ Sequence 20 BP; 5 A; 5 C; 5 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1335 AGCCGAGGCCCTTTGA 1351  
 DB 1 AGCCGATGCCCTTTGA 17

RESULT 1525

ABK31851  
 ID ABK31851 standard; DNA; 20 BP.  
 XX  
 AC ABK31851;  
 XX  
 DT 29-AUG-2003 (revised)  
 DT 23-APR-2002 (first entry)  
 XX  
 DE Candida tropicalis CYP52A5A/CYP52A5B gene QC-RT-PCR primer 7581-97-F.  
 XX  
 KW CPRA; CPRB; CYP52A1A; CYP52A2A; CYP52A2B; CYP52A3A; CYP52A3B; CYP52A5A;  
 KW CYP52A5B; CYP52A8A; CYP52A8B; CYP52D4A; URA3A; cytochrome P450;  
 KW NADPH2 reductase; omega-hydroxylase complex; dicarboxylic acid; ss;  
 KW quantitative competitive reverse transcription PCR; QC-RT-PCR; primer.  
 XX  
 OS Candida tropicalis; 20336.  
 XX  
 PN US6331420-B1.  
 XX  
 PD 18-DEC-2001.  
 XX  
 PF 30-APR-1999; 99US-00302620.  
 XX  
 PR 01-MAY-1998; 98US-0083798P.  
 PR 05-OCT-1998; 98US-0103099P.  
 PR 10-MAR-1999; 99US-0123555P.  
 XX  
 PA (WILS/) WILSON C R.  
 PA (CRAF/) CRAFT D L.  
 PA (EIRI/) EIRICH L D.  
 PA (ESHO/) ESHOO M.  
 PA (MADD/) MADDURI K M.  
 PA (CORN/) CORNETT C A.  
 PA (BREN/) BRENNER A A.



PA (TANG/) TANG M.  
PA (LOPE/) LOPER J C.  
PA (GLEE/) GLEESON M.  
XX  
XX  
PI Wilson CR, Craft DL, Eirich LD, Eshoo M, Madduri KM, Cornett CA;  
PI Brenner AA, Tang M, Loper JC, Gleeson M;  
XX  
XX WPI; 2002-130383/18.  
XX  
PT Novel isolated nucleic acid encoding cytochrome P450 and NADPH reductase  
PT enzymes of omega-hydroxylase complex of Candida tropicalis, useful for  
PT increasing production of dicarboxylic acids.  
XX  
XX Example 11; Col 35-36; 173pp; English.  
XX  
XX The present invention relates to the isolation of Candida tropicalis  
CC 20336 novel genes (CPRA, CPRB, CYP52A1A, CYP52A2A, CYP52A3A,  
CC CYP52A3B, CYP52A5A, CYP52A5B, CYP52A8A, CYP52A8B, CYP52D4A and URA3A)  
CC which encode cytochrome P450 and NADPH2 reductase enzymes of the omega-  
CC hydroxylase complex. Also disclosed are vectors containing these genes  
CC and methods of producing these enzymes. The genes and vectors are useful  
CC for increasing production of a dicarboxylic acid by providing a host cell  
CC having a naturally occurring number of the genes of the invention and  
CC increasing in the host cell, the number of genes encoding these enzymes.  
CC ABK31841-ABK31884 represent quantitative competitive reverse  
CC transcription PCR (QC-RT-PCR) primers used in the methods of the present  
CC invention. (Updated on 29-AUG-2003 to standardise OS field)  
XX  
XX Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 1010 AGAGGGGAGGCTCAAG 1026  
Dy 2 AGAGGGGAGGCTCAAG 18  
RESULT 1526  
ABK16359/c  
ID ABK16359 standard; DNA; 20 BP.  
AC ABK16359;  
XX  
XX 14-MAR-2002 (first entry)  
DT  
DE Mouse adipose protein, adp, PCR primer #4.  
XX  
XX Adipose protein; ss; adp; obesity; transgenic animal; obesity;  
KW adipositas; bulimia; wasting; cachexia; eating disorder;  
KW body weight disorder; weight loss; cancer; infectious disease;  
KW hypogonadism; Prader-Willi syndrome; Laurence-Moon-Biedl syndrome;  
KW hypothyroidism; diabetes; Cushing's syndrome; endocrine disorder;  
KW gastrointestinal diseases; inflammatory bowel disease; PCR primer;  
KW ulcerative colitis; anorexia nervosa; glycogen storage disease;  
KW lipid storage disease; lipoma; liposarcoma; heart disease; hypertension;  
KW infertility; acquired immunodeficiency syndrome; AIDS.  
XX  
XX Mus musculus.  
OS  
XX WO200196371-A2.  
FN  
XX 20-DEC-2001.  
PD  
XX 13-JUN-2001; 2001WO-EP006713.  
PF  
XX 16-JUN-2000; 2000US-0211914P.  
PR  
XX 23-JUN-2000; 2000EP-00113049.  
PR  
XX 28-JUN-2000; 2000US-0214518P.  
PR  
XX 17-APR-2001; 2001EP-00109537.  
PR  
XX (DEVE-) DEVELOGEN AG.  
PA

XX  
PI Broenner G, Ciossek T, Dohrmann C, Haeder T, Rothe M;  
XX WPI; 2002-106464/14.  
XX  
XX Novel nucleic acid encoding adipose polypeptide which regulates, causes  
PT or contributes to obesity, useful for treating obesity, heart disease,  
PT hypertension, infertility, and controlling weight loss in cancer  
PT patients.  
XX  
XX Claim 1; Page 158; 188pp; English.  
PS  
XX The invention relates to a nucleic acid encoding a adipose (ADP)  
CC polypeptide which regulates, causes or contributes to obesity in an  
CC animal or a human. The polynucleotides, proteins, ant-adp antibodies,  
CC modulators of adp activity, adp antisense nucleic acids, expression  
CC vectors, adp transgenic animals are useful in the diagnosis and treatment  
CC of obesity, adipositas, bulimia, wasting (cachexia), eating disorders  
CC and/or disorders of body weight/body mass, weight loss due to cancer or  
CC infectious diseases, genetic disorders associated with hypogonadism e.g.  
CC Prader-Willi syndrome, Laurence-Moon-Biedl syndrome, hypothyroidism,  
CC diabetes, Cushing's syndrome, endocrine disorders, gastrointestinal  
CC diseases, inflammatory bowel disease, ulcerative colitis, and anorexia  
CC nervosa. They are also useful for treating disorders of body weight/mass  
CC e.g. glycogen storage diseases, and lipid storage diseases and for  
CC treating lipomas, and/or liposarcomas. The compositions are also useful  
CC for treating heart disease, hypertension, and infertility and for  
CC treating conditions associated with under weight e.g. enhancing or  
CC controlling fertility, controlling weight loss in acquired  
CC immunodeficiency syndrome (AIDS) or cancer patients. The present sequence  
CC is a PCR primer used to amplify an adp nucleic acid  
XX  
XX Sequence 20 BP; 6 A; 7 C; 4 G; 3 T; 0 U; 0 Other;  
SQ  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 867 GCAGTACTGGATGACT 883  
Dy 18 GGAGTGCCTGGATGACT 2  
RESULT 1527  
AAD44838/c  
ID AAD44838 standard; DNA; 20 BP.  
XX  
XX AAD44838;  
AC  
XX 13-DEC-2002 (first entry)  
DT  
XX Human raf kinase related antisense oligonucleotide #17.  
DE  
XX Raf kinase; hyperproliferation; neovascularisation; ocular angiogenesis;  
KW therapy; cancer; cytostatic; anti-angiogenic; vascular; ophthalmological;  
KW antisense; ss.  
KW  
XX Unidentified.  
OS  
XX US6410518-B1.  
FN  
XX 25-JUN-2002.  
PD  
XX 18-FEB-2000; 2000US-00506073.  
PF  
XX 31-MAY-1994; 94US-00250856.  
PR  
XX 31-MAY-1995; 95WO-US007111.  
PR  
XX 26-NOV-1996; 96US-00756806.  
PR  
XX 07-JUL-1997; 97US-00888982.  
PR  
XX 06-JUL-1998; 98WO-US013961.  
PR  
XX 28-AUG-1998; 98US-00143214.  
PR  
XX (ISIS-) ISIS PHARM INC.  
PA

XX Monia BP;  
 PI  
 XX  
 DR WPI; 2002-597918/64.  
 XX  
 PT Treating cancer, angiogenesis or neovascularization by administering  
 PT antisense oligonucleotides targeted to human raf sequences.  
 XX  
 XX  
 PS Disclosure; Col 59; 41pp; English.  
 XX  
 CC The present invention relates to novel antisense oligonucleotides which  
 CC are targetted to nucleic acids encoding human raf proteins and capable of  
 CC inhibiting raf expression. The invention also relates to methods of  
 CC inhibiting hyperproliferation of cells which involves contacting the  
 CC hyperproliferating cells with a therapeutically effective amount of an  
 CC oligonucleotide of the invention. The method is useful for treating  
 CC cancer, angiogenesis or neovascularisation, especially ocular  
 CC angiogenesis or neovascularisation. The present DNA sequence is human raf  
 CC kinase related antisense oligonucleotide  
 XX  
 SQ Sequence 20 BP; 6 A; 10 C; 0 G; 4 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1152 TGACATGTCGGGTGG 1168  
 DB 17 TGAGATGTGTGTGTGG 1  
 RESULT 1528  
 ABA96039  
 ID ABA96039 standard; DNA; 20 BP.  
 XX  
 AC ABA96039;  
 XX  
 DT 08-APR-2002 (first entry)  
 XX  
 DE Mouse syndecan-1 reverse transcription PCR primer #2.  
 XX  
 KW Smad3; wound healing; fibrosis; antifibrotic; vulneryary; mouse;  
 KW PCR primer; reverse transcription; syndecan-1; ss.  
 XX  
 OS Mus sp.  
 XX  
 FN WO200189556-A1.  
 XX  
 PD 29-NOV-2001.  
 XX  
 XX 19-MAY-2000; 2000WO-US013725.  
 PF  
 XX 19-MAY-2000; 2000WO-US013725.  
 PR  
 XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.  
 PA  
 XX Roberts AB, Ashcroft GS, Russo A, Mitchell JB, Deng C;  
 PI WPI; 2002-075348/10.  
 XX  
 DR Use of Smad3 inhibitors in preparing a medicament for treating or  
 XX preventing wounds or fibrosis, or as reagents in assays for screening  
 PT compounds for preventing fibrosis and improving of wound healing.  
 PT  
 XX Example; Page 38; 65pp; English.  
 PS  
 XX The sequence represents a mouse syndecan-1 reverse transcription PCR  
 CC primer. The invention relates to a novel use of a Smad3 inhibitor in  
 CC preparing a medicament to treat or prevent wounds or fibrosis. The  
 CC invention has antifibrotic and vulneryary activity. The Smad3 inhibitors  
 CC are useful for preventing fibrosis and improving wound healing. The Smad3  
 CC protein, polypeptides and peptide fragments are useful for generating  
 CC antibodies, as reagents for research purposes, or the identification of

CC other cellular gene products involved in the regulation of fibrosis and  
 CC improvement of wound healing, as reagents in assays for screening for  
 CC compounds that can be used in the prevention of fibrosis and improvement  
 CC of wound healing, and as pharmaceutical reagents in protecting against  
 CC fibrosis and improving wound healing related to Smad3. Compounds that  
 CC bind to Smad3 may be used in inhibiting the activity of wild type and/or  
 CC mutant Smad3 gene products, in elaborating the biological function of  
 CC Smad3, and in identifying compounds that disrupt normal Smad3  
 CC interactions  
 XX  
 SQ Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1093 ACACGTGTGTACCGGCC 1109  
 DB 1 ACACGTGTGACACCGCC 17

RESULT 1529  
 ABQ66488  
 ID ABQ66488 standard; DNA; 20 BP.  
 XX  
 AC ABQ66488;  
 XX  
 DT 22-AUG-2002 (first entry)  
 XX  
 DE Human cytohesin-1 mRNA levels inhibitor #57.  
 XX  
 KW Cytohesin-1; CTL1; inhibit; cytostatic; antiinflammatory; cytostatic;  
 KW anti-infective; antisense gene therapy; infection; inflammation; tumour;  
 KW human; ss; inhibitor.  
 XX  
 OS Synthetic.  
 XX  
 PN US6383809-B1.  
 XX  
 PD 07-MAY-2002.  
 XX  
 PF 30-OCT-2000; 2000US-00702246.  
 XX  
 PR 30-OCT-2000; 2000US-00702246.  
 XX  
 PA (ISIS-) ISIS PHARM INC.  
 XX  
 PI Bennett CF, Cowser LM;  
 XX WPI; 2002-478385/51.  
 XX  
 PT New antisense compounds directed against human cytohesin-1, useful for  
 PT treating and preventing infection, inflammation and tumors.  
 XX  
 PS Claim 14; Col 41; 40pp; English.  
 XX  
 CC The invention relates to a novel antisense compound of 16-30 nucleotides  
 CC targeted to any of 71 specified regions of the sequence that encodes  
 CC human cytohesin-1 (CTL1), where the compound hybridises and inhibits  
 CC expression of human CTL1. The compound of the invention has  
 CC antiinflammatory, cytostatic, and anti-infective activity. The antisense  
 CC compounds may have a use in antisense gene therapy. The antisense  
 CC compounds are useful for treating or preventing disorders associated with  
 CC expression of human CTL1, e.g. infections, inflammation and tumours, and  
 CC as research and diagnostic reagents. Sequences ABQ66432-ABQ66511  
 CC represent chimeric phosphorothioate oligonucleotides, with 2'-MOE wings  
 CC and a deoxy gap. The claimed sequences inhibit production of cytohesin-1  
 CC mRNA  
 XX  
 SQ Sequence 20 BP; 1 A; 11 C; 5 G; 3 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 733 GCACCTGCACGCCAT 749  
 |||||  
 Db 4 GCGCCCTGCACGCCCT 20

RESULT 1530  
 ABI95418/C  
 ID ABI95418 standard; DNA; 20 BP.  
 XX  
 AC ABI95418;  
 XX  
 DT 16-FEB-2002 (first entry)  
 XX  
 DE Capture oligonucleotide Zip ID#2505 oligo #9.  
 XX  
 KW Human; K-ras; PCR primer; probe; capture probe; mutation detection;  
 KW ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease;  
 KW infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer;  
 KW oncogene; tumour suppressor; human papillomavirus; forensic;  
 KW environmental monitoring; food industry; feed industry; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200179548-A2.  
 XX  
 PD 25-OCT-2001.  
 XX  
 PF 04-APR-2001; 2001WO-US010958.  
 XX  
 PR 14-APR-2000; 2000US-0197271P.  
 XX  
 PA (CORR ) CORNELL RES FOUND INC.  
 XX  
 PI Barany F, Zirvi M, Gerry NP, Favis R, Kliman R;  
 XX  
 XX WPI; 2002-034366/04.  
 DR  
 XX  
 PT Designing capture oligonucleotide probes for use on a support to which  
 PT complementary oligonucleotides hybridize with little mismatch.  
 XX  
 PS Example 5; Fig 29; 300pp; English.  
 XX  
 CC The present invention describes a method (M1) for designing capture  
 CC oligonucleotide probes (I) for use on a support to which complementary  
 CC oligonucleotide probes (II) will hybridise with little mismatch, where  
 CC (I) have melting temperatures within a narrow range. The method is useful  
 CC for detecting infectious diseases caused by bacterial infectious agents  
 CC e.g. Salmonella, Listeria monocytogenes and Haemophilus influenza, fungal  
 CC infectious agents e.g. Cryptococcus neoformans, Candida albicans and  
 CC Aspergillus fumigatus, viruses e.g. T-cell lymphocytotropic virus,  
 CC Epstein-Barr virus and polio virus, and parasitic infectious agents  
 CC selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus  
 CC medinensis. The method is also useful for detecting genetic diseases such  
 CC as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.  
 CC Detecting cancer involving oncogenes, tumour suppressor genes, or genes  
 CC involved in DNA amplification, replication, recombination or repair, the  
 CC cancer is specifically associated with a gene selected from BRCA1 gene,  
 CC p53 gene, human papillomavirus types 16 and 18 and liver cancers. The  
 CC method is also used for environmental monitoring, forensics and the food  
 CC and feed industry, detecting comprises scanning (using e.g. a scanning  
 CC electron microscope and infrared microscope) the support at the  
 CC particular sites and identifying if ligation of the oligonucleotide probe  
 CC sets occurred and correlating (using a computer) identified ligation to a  
 CC presence or absence of the target nucleotide sequences. ABI92074 to  
 CC ABI97546 represent oligonucleotide sequences used in the exemplification  
 CC of the present invention  
 XX  
 SQ Sequence 20 BP; 5 A; 8 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 288 ACTTCGTTCTGACGGG 304  
 |||||  
 Db 18 AGTTCGTTCTGACGGG 2

RESULT 1531  
 ABI93431/C  
 ID ABI93431 standard; DNA; 20 BP.  
 XX  
 AC ABI93431;  
 XX  
 DT 15-FEB-2002 (first entry)  
 XX  
 DE Capture oligonucleotide Zip ID#518 oligo #9.  
 XX  
 KW Human; K-ras; PCR primer; probe; capture probe; mutation detection;  
 KW ligase detection reaction; LDR; p53; BRCA1; BRCA2; infectious disease;  
 KW infection; 21 hydroxylase deficiency; Turner Syndrome; obesity; cancer;  
 KW oncogene; tumour suppressor; human papillomavirus; forensic;  
 KW environmental monitoring; food industry; feed industry; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200179548-A2.  
 XX  
 PD 25-OCT-2001.  
 XX  
 PF 04-APR-2001; 2001WO-US010958.  
 XX  
 PR 14-APR-2000; 2000US-0197271P.  
 XX  
 PA (CORR ) CORNELL RES FOUND INC.  
 XX  
 PI Barany F, Zirvi M, Gerry NP, Favis R, Kliman R;  
 XX  
 XX WPI; 2002-034366/04.  
 DR  
 XX  
 PT Designing capture oligonucleotide probes for use on a support to which  
 PT complementary oligonucleotides hybridize with little mismatch.  
 XX  
 PS Example 5; Fig 29; 300pp; English.  
 XX  
 CC The present invention describes a method (M1) for designing capture  
 CC oligonucleotide probes (I) for use on a support to which complementary  
 CC oligonucleotide probes (II) will hybridise with little mismatch, where  
 CC (I) have melting temperatures within a narrow range. The method is useful  
 CC for detecting infectious diseases caused by bacterial infectious agents  
 CC e.g. Salmonella, Listeria monocytogenes and Haemophilus influenza, fungal  
 CC infectious agents e.g. Cryptococcus neoformans, Candida albicans and  
 CC Aspergillus fumigatus, viruses e.g. T-cell lymphocytotropic virus,  
 CC Epstein-Barr virus and polio virus, and parasitic infectious agents  
 CC selected from Onchoverva volvulus, Entamoeba histolytica and Dracunculus  
 CC medinensis. The method is also useful for detecting genetic diseases such  
 CC as 21 hydroxylase deficiency, Turner Syndrome and obesity defects.  
 CC Detecting cancer involving oncogenes, tumour suppressor genes, or genes  
 CC involved in DNA amplification, replication, recombination or repair, the  
 CC cancer is specifically associated with a gene selected from BRCA1 gene,  
 CC p53 gene, human papillomavirus types 16 and 18 and liver cancers. The  
 CC method is also used for environmental monitoring, forensics and the food  
 CC and feed industry, detecting comprises scanning (using e.g. a scanning  
 CC electron microscope and infrared microscope) the support at the  
 CC particular sites and identifying if ligation of the oligonucleotide probe  
 CC sets occurred and correlating (using a computer) identified ligation to a  
 CC presence or absence of the target nucleotide sequences. ABI92074 to  
 CC ABI97546 represent oligonucleotide sequences used in the exemplification  
 CC of the present invention  
 XX  
 SQ Sequence 20 BP; 5 A; 5 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;

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Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 567 CTTCCGTCGTGTCAGCC 583
Db 19 CTTCCGTCGTGCAAGCC 3

RESULT 1532
ABL50712/c
ID ABL50712 standard; DNA; 20 BP.
XX
XX AC
XX AC
XX ABL50712;
DT 19-JUN-2002 (first entry)
XX
XX DE
XX Rat G protein-coupled receptor protein PCR primer SEQ ID NO:67.
XX Rat; rZAQ1; rZAQ2; G protein-coupled receptor; GPCR; antidiarrheic;
XX laxative; drug development; digestive organ disease; colitis; diarrhoea;
XX constipation; malabsorption syndrome; diagnosis; gene therapy;
XX PCR primer; ss.
XX
XX Rattus sp.
OS
XX WO200216607-A1.
XX
XX 28-FEB-2002.
XX
XX 23-AUG-2001; 2001WO-JP007209.
XX
XX 24-AUG-2000; 2000JP-00253862.
XX
XX (TAKE ) TAKEDA CHEM IND LTD.
XX
XX Terao Y, Shintani Y;
XX
XX WPI; 2002-269361/31.
XX
XX Human and rat brain-originated G protein-coupled receptor proteins and
XX encoded DNAs, for developing drugs to treat diseases of the digestive
XX organs, e.g. colitis, diarrhea, constipation and mal-absorption syndrome.
XX
XX Example 5; Page 77; 135pp; Japanese.
XX
XX The present invention describes human and rat brain-originated G protein-
XX coupled receptor (GPCR) proteins. The GPCR sequences have antidiarrheic
XX and laxative activities. The GPCR sequences can be used for developing
XX drugs to treat diseases of the digestive organs, e.g. colitis, diarrhoea,
XX constipation and malabsorption syndrome, including gene diagnosis and
XX therapy. The present sequence represents a PCR primer for rat GPCR, which
XX is used in an example from the present invention
XX
XX Sequence 20 BP; 3 A; 7 C; 3 G; 7 T; 0 U; 0 Other;
QY 862 CTGAAGCAGTACCTGGA 878
Db 19 CTGAAGCAGGAGCTGGA 3

RESULT 1533
ADG90527
ID ADG90527 standard; DNA; 20 BP.
XX
XX AC
XX AC
XX ADG90527;
XX
XX 11-MAR-2004 (first entry)
XX
XX Human talin phosphorothioate antisense oligonucleotide, SEQ ID NO:77.
XX
```

```
KW Human; talin; cellular adhesion; muscle strength; cardiac function;
KW cardiomyocyte; platelet; prostate; androgen downregulation;
KW prostate cancer; talin-related disorder;
KW cellular adhesion-related disorder; expression inhibition;
KW antisense therapy; phosphorothioate; antisense oligonucleotide; ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /tag= a
XX /mod_base
XX /note= "This oligonucleotide has a phosphorothioate
XX backbone and 2'-methoxyethyl (2'-MOE) wings at the 5',
XX and 3' ends, which are 5 nucleotides in length. Also all
XX cytosine nucleotides are 5-methylcytosines"
XX
XX WO200268446-A1.
XX
XX 06-SEP-2002.
XX
XX 30-OCT-2001; 2001WO-US048435.
XX
XX 22-FEB-2001; 2001US-00791942.
XX
XX (ISIS-) ISIS PHARM INC.
XX (BOEH ) BOEHRINGER INGELHEIM PHARM INC.
XX
XX Bennett CF, Rothlein R, Kishimoto TK, Cowseert LM;
XX WPI; 2002-691651/74.
XX
XX New antisense oligonucleotides targeted to nucleic acid molecules
XX encoding human Talin, useful for inhibiting the expression of human Talin
XX and for treating a human having a disease or condition associated with
XX Talin.
XX
XX Example 15; SEQ ID NO 77; 114pp; English.
XX
XX Sequences ADG90460-ADG90539 represent phosphorothioate targeted to the
XX human talin gene, which inhibit its expression. The antisense were
XX designed to target different regions of human talin RNA, and were
XX analysed for their effect on talin expression by quantitative real-time
XX PCR. Talin is a cytoplasmic protein which links cytoskeletal proteins
XX such as actin, myosin and vinculin to integrins thereby linking the
XX extracellular matrix to other cells. It is thought to be involved in the
XX regulation of cellular adhesion and cell morphology. Talin is highly
XX expressed in platelets, and may play a role in platelet adhesion as its
XX subcellular distribution differs between resting non-adhesive platelets
XX and activated adhesive platelets. It could also play a major role in
XX determining muscle strength and cardiac function as it has been found to
XX participate in the transmission of contractile force to the extracellular
XX matrix in cardiomyocytes, and exhibits mechanical loading-dependent
XX expression at myotendinous junctions. The expression of talin is
XX downregulated by androgens in prostate tissues, a phenomenon known to
XX contribute to the development of prostate cancer. The oligonucleotides of
XX the invention are useful for diagnosis, prevention and treatment of talin
XX -related disorders, such as those related to cellular adhesion. The
XX present sequence represents a human c-Ha-ras phosphorothioate antisense
XX oligonucleotide used as a positive control in determining optimal
XX oligonucleotide concentration for a particular cell line.
XX
XX Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
QY 1571 ACTCAGCGAGGCCAGCT 1587
Db 4 ACTCTGGCAGGCCATCT 20

Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e-03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
RESULT 1534
ABQ77206/c
ID ABQ77206 standard; DNA; 20 BP.
XX
AC ABQ77206;
XX
XX 24-APR-2003 (first entry)
XX
XX Human ABCC12 exon 22/intron 22 boundary.
XX
KW Adenosine triphosphate (ATP)-binding cassette transporter subfamily C12;
KW cystic fibrosis transmembrane conductance regulator; human; CFTR/MRP;
KW multidrug resistance-like subgroup; somatic gene therapy; ABCC12;
KW paroxysmal kinesigenic choreoathetosis; cysteinyl leukotriene;
KW anionic drug; methotrexate; neutral drug; glutathione; glucuronate;
KW sulphate conjugated drug; ds.
XX
OS Homo sapiens.
XX
XX WO200285943-A2.
XX
XX 31-OCT-2002.
XX
XX 05-MAR-2002; 2002WO-EP003320.
XX
XX 05-MAR-2001; 2001US-0272759P.
XX
XX (AVET ) AVENTIS PHARMA SA.
XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.
XX
XX Rosier-Montus M, Prades C, Arnould-Reguigne I, Denefle P, Dean M;
XX Allikmets R;
XX
XX WPI; 2003-093101/08.
XX
XX New ATP-binding cassette transporter gene subfamily C12, ABCC12
XX polypeptide, useful for preventing or treating paroxysmal kinesigenic
XX choreoathetosis.
XX
XX Disclosure; Page 44; 122pp; English.
XX
XX This invention describes a novel human ABCC12 (adenosine triphosphate
XX (ATP)-binding cassette transporter gene subfamily C12, i.e. cystic
XX fibrosis transmembrane conductance regulator/multidrug resistance-like
XX subgroup (CFTR/MRP) family) polypeptide and its encoding polynucleotides
XX The polypeptide is useful for screening agonists and antagonist of the
XX ABCC12 polypeptide. The products of the invention are useful for
XX screening an active ingredient for preventing and treating paroxysmal
XX kinesigenic choreoathetosis or pathologies linked to dysfunction of
XX transport of organic anion transporters such as cysteinyl leukotriene,
XX anionic drugs, such as methotrexate, neutral drugs conjugated to acidic
XX ligands, such as glutathione, glucuronate or sulphate conjugated drugs
XX and can be used for somatic gene therapy. This sequence represents a
XX region corresponding to an exon/intron boundary from the gene encoding a
XX human ABCC12 isoform described in the disclosure of the invention
XX
SQ Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 865 AAGCAGTACCTGGATGA 881
| |||||
Db 19 AGGCATTACCTGGATGA 3
RESULT 1535
ABX74975
ID ABX74975 standard; DNA; 20 BP.
XX
XX ABX74975;
XX
AC ABX74975;
XX
XX 25-MAR-2003 (first entry)
XX
XX Human gene 216 polymorphism detection PCR primer #32.
XX
XX Human; mouse; ss; primer; gene 216; antiasthmatic; antiinflammatory;
XX anorectic; chromosome 20p13-p12; single nucleotide polymorphism; SNP;
XX gene therapy; respiratory disease; asthma; obesity; PCR;
XX bronchial hyper-responsiveness; chronic obstructive pulmonary disease;
XX adult respiratory distress syndrome; inflammatory bowel syndrome.
XX
OS Homo sapiens.
XX
XX WO200283077-A2.
XX
XX 24-OCT-2002.
XX
XX 15-APR-2002; 2002WO-US012063.
XX
XX 13-APR-2001; 2001US-00834597.
XX
XX 13-APR-2001; 2001WO-US012245.
XX
XX (SCHE ) SCHERING CORP.
XX (GENO-) GENOME THERAPEUTICS CORP.
XX
XX Keith T, Little RD, Van Berdewegh P, Dupuis J, Del Mastro RG;
XX Simon J, Allen K, Pandit S;
XX
XX WPI; 2003-092960/08.
XX
XX New isolated gene 216 nucleic acids, useful for diagnosing, preventing or
XX treating a disorder, such as asthma, bronchial hyper-responsiveness,
XX chronic obstructive pulmonary disease, obesity or inflammatory bowel
XX syndrome.
XX
XX Example 10; Page 155; 650pp; English.
XX
XX This invention relates to a novel isolated nucleic acid, gene 216,
XX identified from human chromosome 20p13-p12. The invention also discloses
XX regions of the 216 gene that contain single nucleotide polymorphisms
XX (SNP's) which may be used as markers for disease susceptibility or
XX severity. The nucleotides of the invention may have antiasthmatic,
XX antiinflammatory or anorectic activities and may be used in gene therapy.
XX The nucleic acids, antibodies or its fragments are useful for diagnosing,
XX preventing or treating a disorder, such as respiratory diseases (e.g.
XX asthma, bronchial hyper-responsiveness, chronic obstructive pulmonary
XX disease or adult respiratory distress syndrome), obesity, or inflammatory
XX bowel syndrome. The nucleic acids are also useful for identifying
XX increased susceptibility of a subject to the disorders mentioned. The
XX nucleic acids can also be used as primers and templates for the
XX recombinant production of disorder-associated peptides or polypeptides.
XX for chromosome and gene mapping, or for tissue distribution studies. The
XX present sequence represents a gene 216 specific PCR primer used in the
XX scope of the invention
XX
SQ Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 538 CCCATCTTTGACAAGCC 554
| |||||
Db 2 CCCTTCGTGTACAAGCC 18
RESULT 1536
ABX75035/c
ID ABX75035 standard; DNA; 20 BP.
XX
XX ABX75035;
XX
AC ABX75035;
XX
XX 25-MAR-2003 (first entry)
XX
XX
```





PT disease by administering an immunostimulatory nucleic acid.  
XX  
PS Disclosure; Page 35; 229pp; English.  
XX  
CC The invention describes a method of treating non-allergic inflammatory  
CC disease comprising administering to a subject having or at risk of  
CC developing a non-allergic inflammatory disease an immunostimulatory  
CC nucleic acid for prevention or treatment of the disease. The method is  
CC useful for treating non-allergic inflammatory diseases, such as  
CC psoriasis, eczema, allergic contact dermatitis, latex dermatitis or  
CC inflammatory bowel disease e.g., ulcerative colitis or Crohn's disease.  
CC This sequence represents an immunostimulatory nucleic acid  
XX  
SQ Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1547 GCCTTCGGTCTTCGTCG 1563  
DB 1 GCCTTCGATCTTCGTTG 17  
  
RESULT 1541  
ADB37315  
ID ADB37315 standard; DNA; 20 BP.  
XX  
AC ADB37315;  
XX  
DT 04-DEC-2003 (first entry)  
XX  
DE Immunostimulatory nucleic acid #929.  
XX  
ds; allergy; asthma; poly-G nucleic acid; aerosol formulation;  
KW hypo-responsive subject; immunostimulatory.  
KW Synthetic.  
OS  
XX  
XX US2003087849-A1.  
XX  
XX 08-MAY-2003.  
XX  
XX 02-FEB-2001; 2001US-00776479.  
XX  
XX 03-FEB-2000; 2000US-0179991P.  
XX  
PA (BRAT/) BRATZLER R L.  
PA (PETE/) PETERSEN D M.  
PA (FOUR/) FOURON Y.  
XX  
XX Bratzler RL, Petersen DM, Fouron Y;  
PI  
XX WPI; 2003-657977/62.  
XX  
XX Treating and/or preventing allergy or asthma using an immunostimulatory  
PT nucleic acid alone or in combination with an asthma/allergy medicament.  
PT  
XX  
PS Disclosure; Page 19; 221pp; English.  
XX  
CC The invention relates to a method of treating or preventing allergy or  
CC asthma which comprises administering to a subject a poly-G nucleic acid  
CC in an aerosol formulation. The methods and compositions of the present  
CC invention are useful for diagnosing and/or treating asthma and allergy  
CC especially in a hypo-responsive subject. The present sequence represents  
CC an immunostimulatory nucleic acid of the invention.  
XX  
SQ Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1547 GCCTTCGGTCTTCGTCG 1563  
DB 1 GCCTTCGATCTTCGTTG 17  
  
RESULT 1542  
ADB90016/c  
ID ADB90016 standard; DNA; 20 BP.  
XX  
AC ADB90016;  
XX  
DT 04-DEC-2003 (first entry)  
XX  
DE Antisense oligonucleotide targeting mouse C3 component, ISIS140104.  
XX  
KW Mouse; ss; antisense; complement component C3; inflammation;  
KW septic shock; multiple organ failure; hyperacute organ failure;  
KW autoimmune disorder; CNS inflammation; multiple sclerosis;  
KW atherosclerosis; tumour.  
XX  
OS Mus musculus.  
XX  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone and all cytosines are 5  
FT -methyl cytosines"  
FT modified\_base 1..5  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl nucleotides"  
FT modified\_base 15..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl nucleotides"  
XX  
XX US2003096775-A1.  
XX  
XX 22-MAY-2003.  
XX  
XX 23-OCT-2001; 2001US-00001076.  
XX  
XX 23-OCT-2001; 2001US-00001076.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Graham MJ, Watt AT;  
XX WPI; 2003-606441/57.  
XX  
XX New antisense oligonucleotides targeted to a nucleic acid molecule  
PT encoding complement component C3, useful for treating a disease or  
PT condition associated with complement component C3, e.g. autoimmune  
PT disorder or infection.  
XX  
PS Example 16; Page 27; 72pp; English.  
XX  
CC The invention relates to a compound 8-50 nucleobases in length targeted  
CC to a nucleic acid molecule encoding complement component C3. The compound  
CC specifically hybridises with the nucleic acid molecule encoding  
CC complement component C3 and inhibits the expression of complement  
CC component C3, or specifically hybridises with at least an 8-nucleobase  
CC portion of an active site on a nucleic acid molecule encoding complement  
CC component C3. Also included are a composition comprising the compound and  
CC a pharmaceutical carrier or diluent, inhibiting the expression of  
CC complement component C3 in cells or tissues (comprising contacting the  
CC cells or tissues with the compound cited above) and treating an animal  
CC having a disease or condition associated with complement component C3  
CC comprising administering to the animal the compound cited above so that  
CC expression of complement component C3 is inhibited. The antisense  
CC compounds are useful for inhibiting the expression of complement  
CC component C3 in cells or tissues, or for treating an animal having a



CC disease or condition associated with complement component C3 such as an  
 CC autoimmune disorder (e.g. multiple sclerosis), an infection, or  
 CC atherosclerosis, inflammation, septic shock, multiple organ failure,  
 CC hyperacute organ failure and CNS inflammation. The compounds are also  
 CC useful as research reagents and diagnostics, in distinguishing functions  
 CC of various members of a biological pathway, or for preventing or delaying  
 CC infection, inflammation or tumour formation. The present sequence is an  
 CC antisense oligonucleotide targeting mouse C3.  
 XX  
 SQ Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 391 TCGGATGAGGTGCAGTC 407  
 Db 20 TCAGATGAGGTGCAGGC 4  
 RESULT 1543  
 ADB81512  
 ID ADB81512 standard; DNA; 20 BP.  
 XX  
 AC ADB81512;  
 XX  
 DT 04-DEC-2003 (first entry)  
 XX  
 DE Antisense oligo (SeqID 29) used to inhibit human EIF2C1 DNA.  
 XX  
 KW antisense; ss; human; eukaryotic translation initiation factor 2C 1;  
 KW EIF2C1; Co-eIF2C; eIF2C; Golgi ER protein 95kDa; GERP95; Q99;  
 KW gene therapy; hyperproliferative disorder;  
 KW familial hypercholesterolaemia; cancer; polycystic kidney disease;  
 KW cystic fibrosis; progeria syndrome; cytostatic; antilipaeamic.  
 XX  
 OS Homo sapiens.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "OTHER= phosphorothioate backbone, where 1-5 and  
 FT 16-20 are 2' methoxyethyl nucleotides. All cytidines are  
 FT 5-methylcytidines"  
 XX  
 PN WO2003040321-A2.  
 XX  
 PD 15-MAY-2003.  
 XX  
 PF 04-NOV-2002; 2002WO-US035324.  
 XX  
 PR 08-NOV-2001; 2001US-00007078.  
 XX  
 EA (ISIS-) ISIS PHARM INC.  
 XX  
 FI Ward DT, Watt AT;  
 XX  
 DR WPI; 2003-449448/42.  
 XX  
 PT New compound, having a sequence targeted to a nucleic acid encoding human  
 PT collapsin response mediator protein 2, useful for preparing a composition  
 PT for treating hypercholesterolemia or hyperproliferative disorder, e.g.,  
 PT cancer.  
 XX  
 FS Claim 3; Page 76; 120pp; English.  
 XX  
 CC This invention relates to novel antisense oligonucleotides that modulate  
 CC the expression of human eukaryotic translation initiation factor 2C 1  
 CC (EIF2C1). EIF2C1 is located on chromosome 1p34-35, and is also known as  
 CC Co-eIF2C, eIF2C, Golgi ER protein 95kDa, GERP95 and Q99. It is an  
 CC intracellular membrane associated protein thought to be involved in  
 CC cellular differentiation, such that altered expression of EIF2C1 can

CC affect cell growth, morphology and tumorigenicity. Accordingly,  
 CC antisense oligonucleotides that inhibit the expression of EIF2C1 in cells  
 CC or tissues can be used in gene therapy to treat various conditions  
 CC including hyperproliferative disorders, familial hypercholesterolaemia  
 CC and cancer, as well as polycystic kidney disease, cystic fibrosis and  
 CC progeria syndrome. As such, the oligos of the present invention can be  
 CC described as having cytostatic and antilipaeamic activities. This  
 CC oligonucleotide sequence is an antisense oligo used to inhibit expression  
 CC of the human eukaryotic translation initiation factor 2C 1 (EIF2C1) DNA  
 CC of the invention.  
 XX  
 SQ Sequence 20 BP; 3 A; 8 C; 2 G; 7 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 568 CTCCTGCTGTCAGCCT 584  
 Db 1 CTCCTGCTGTCATCCT 17  
 RESULT 1544  
 ADB99096  
 ID ADB99096 standard; DNA; 20 BP.  
 XX  
 AC ADB99096;  
 XX  
 DT 04-DEC-2003 (first entry)  
 XX  
 DE Human retinal pigment epithelial-derived factor (PEDF) PCR primer #1.  
 XX  
 KW Human; ss; PCR; retinal pigment epithelial-derived neurotrophic factor;  
 KW PEDF; tumour; ocular disease; neuronal cell pathology; serine protease;  
 KW blood coagulation; thrombosis; bacterial infection; parasitic infection;  
 KW elastosis; vascular disorder; fibrinoid formation; coagulation disorder;  
 KW arteriosclerosis; ischaemia; arthrosis diabetes; emphysema; arthritis;  
 KW septic shock; lung disease; complement activation; ulcer;  
 KW ulcerative colitis; pancreatitis; psoriasis; fibrinolytic disease;  
 KW arthropathy; bone resorption; hypertension; congestive heart failure;  
 KW cirrhosis; protease allergy; chromosome 17p13.1-pter; primer.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2003096750-A1.  
 XX  
 PD 22-MAY-2003.  
 XX  
 PF 09-AUG-2002; 2002US-00216373.  
 XX  
 PR 04-JUN-1992; 92US-00894215.  
 PR 24-SEP-1992; 92US-00952796.  
 PR 29-AUG-1995; 95US-00520373.  
 XX  
 EA (TOMB/) TOMBRAN-TINK J.  
 PA (STEE/) STEELE F R.  
 PA (CHAD/) CHADER G J.  
 PA (BECER/) BECERRA S P.  
 PA (JOHN/) JOHNSON L V.  
 PA (RODR/) RODRIGUEZ I R.  
 XX  
 PI Tombran-Tink J, Steele FR, Chader GJ, Becerra SP, Johnson LV;  
 PI Rodriguez IR;  
 XX  
 DR WPI; 2003-743982/70.  
 XX  
 PT New purified retinal pigmented epithelium derived neurotrophic factor  
 PT composition, useful for treating tumors, i.e. retinal tumor, ocular  
 PT disease, neuronal cell pathologies, coagulation disorders or  
 PT arteriosclerosis.  
 XX  
 PS Example 48; SEQ ID NO 9; 58pp; English.  
 XX

CC The invention relates to a composition comprising purified retinal  
 CC pigmented epithelium derived neurotrophic factor (PEDF). The PEDF  
 CC proteins comprise ADB99089, ADB99090 or sequences equivalent to but not  
 CC identical to ADB99089. Human PEDF is encoded by ADB99088. Also included  
 CC are purifying PEDF, producing PEDF comprising expressing the DNA sequence  
 CC encoding the PEDF in a host cell, a recombinant DNA molecule comprising a  
 CC genomic DNA fragment for PEDF (appearing as ADB99091 - ADB99093), a  
 CC vector comprising a PEDF nucleic acid molecule, an organism transformed  
 CC with a recombinant DNA molecule comprising a retinal PEDF cDNA, a host  
 CC cell containing the vector, a recombinantly produced PEDF protein which  
 CC is free from the risks normally associated with proteins isolated or  
 CC purified from a naturally occurring source organism and a purified human  
 CC genomic DNA molecule encoding a PEDF protein. The purified retinal  
 CC pigmented epithelium derived neurotrophic factor is useful for treating  
 CC tumours, i.e. retinal tumour, ocular disease, neuronal cell pathologies,  
 CC or conditions resulting from the activity of serine proteases, e.g.  
 CC excessive or unwanted blood coagulation, thrombosis, bacterial infection,  
 CC parasitic infection, elastosis, vascular disorders involving fibrinoid  
 CC formation, coagulation disorders, arteriosclerosis, ischaemia, arthroses  
 CC diabetes, emphysema, arthritis, septic shock, lung diseases, excessive  
 CC complement activation, ulcers, ulcerative colitis, pancreatitis,  
 CC psoriasis, fibrinolytic disease, arthropathy, bone resorption,  
 CC hypertension, congestive heart failure, cirrhosis, or allergy caused by  
 CC proteases. The present sequence is a PCR primer used to isolate genomic  
 CC DNA encoding human retinal pigmented epithelium derived neurotrophic  
 CC factor (PEDF).

XX Sequence 20 BP; 4 A; 6 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1631 CCAGCAGCGCAGCGGCTG 1647  
 Db 2 CAGAGCTGGCAGCGGCTG 18

RESULT 1545

ADC65775/C  
 ID ADC65775 standard; DNA; 20 BP.

AC ADC65775;

XX 18-DEC-2003 (first entry)

XX Human TGF-beta receptor II targeted antisense oligonucleotide #52.

XX human; antisense oligonucleotide;

KW transforming growth factor beta receptor II; TGF-beta receptor II;

KW hyperproliferative disorder; breast cancer; autoimmune disorder;

KW rheumatoid arthritis; 2'-O-methoxyethyl gapmer;

KW phosphorothioate backbone; ss.

OS Homo sapiens.

XX WO200300656-A2.

XX 03-JAN-2003.

XX 19-JUN-2002; 2002WO-US019665.

XX 21-JUN-2001; 2001US-00888361.

XX (ISIS-) ISIS PHARM INC.

XX Murray SP, Wyatt JR;

XX WPI; 2003-175279/17.

XX New compound having a sequence targeted to a nucleic acid encoding  
 PT Transforming growth factor beta-receptor II, useful for preparing a  
 PT composition for treating hyperproliferative disorder e.g., lung, liver,

PT colon or gastric cancer.

XX Example 15; SEQ ID NO 71; 141bp; English.

XX The invention comprises antisense oligonucleotides that are targeted to  
 CC the nucleic acid encoding transforming growth factor beta (TGF-beta)  
 CC receptor II. The antisense oligonucleotides of the invention are useful  
 CC for treating: hyperproliferative disorders (e.g. breast cancer), or an  
 CC autoimmune disorder (e.g. rheumatoid arthritis). The present DNA sequence  
 CC represents a 2'-O-methoxyethyl gapmer oligonucleotide with a  
 CC phosphorothioate backbone that is targeted to human TGF-beta receptor II.  
 XX Sequence 20 BP; 8 A; 4 C; 7 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1202 CCCTCTTTCCGGGCTCC 1218  
 Db 19 CCATCTTTCTGGGCTCC 3

RESULT 1546

ADC68507

ID ADC68507 standard; DNA; 20 BP.

AC ADC68507;

XX 19-DEC-2003 (first entry)

XX Tannin biosynthesis gene related PCR primer SEQ ID NO:217.

KW Lolium perenne; Festuca arundinacea; lignin; fructan; tannin;  
 KW biosynthetic pathway; plant; PCR primer; ss.

OS Synthetic.

OS Lolium perenne.

OS Schedonorus arundinaceus.

XX WO2003040306-A2.

XX 15-MAY-2003.

XX 07-NOV-2002; 2002WO-NZ000239.

XX 07-NOV-2001; 2001US-0337703P.

XX (GENE-) GENESIS RES & DEV CORP LTD.

XX (WRIG-) WRIGHTSON SEEDS LTD.

XX Denner J, Forster RL, Gibson JB, Shenk MA, Norriss MG, Glenn M;  
 XX Saulsbury KM, Hall C;

XX WPI; 2003-441544/41.

XX New polynucleotide encoding polypeptides from Lolium perenne or Festuca  
 PT arundinacea, useful for modulating the biosynthesis of lignin, fructan or  
 PT tannin in a plant.

XX Example 8; SEQ ID NO 217; 240pp; English.

XX The present invention describes isolated polynucleotides (I) encoding  
 CC proteins (II) from Lolium perenne and Festuca arundinacea which are  
 CC active in lignin, fructan and tannin biosynthetic pathways. Also  
 CC described: (1) an isolated oligonucleotide probe or primer comprising at  
 CC least 10 contiguous residues complementary to 10 contiguous residues of  
 CC (I); (2) a kit comprising the oligonucleotide probe or primer; (3) a  
 CC genetic construct comprising (I); (4) a transgenic plant cell comprising  
 CC the genetic construct of (3); (5) a plant or its seed, fruit or progeny  
 CC comprising the transgenic plant cell of (4); (6) modulating one or more  
 CC of the lignin, fructan or tannin compositions of a plant; (7) producing a  
 CC plant having one or more of the lignin, fructan or tannin compositions;

CC and (8) modifying the activity of (II) involved in a lignin, fructan or  
 CC tannin biosynthetic pathway in a plant. (I) can be used for modulating  
 CC the biosynthesis of lignin, fructan or tannin in a plant. The present  
 CC sequence is used in the exemplification of the present invention.

XX  
 SQ Sequence 20 BP; 6 A; 3 C; 8 G; 3 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; Mismatches 0; Indels 0; Gaps 0;  
 Matches 15; Conservative 0

QY 851 TGGACAAGGAGCTGAAG 867  
 ||||| ||||| |||||  
 Db 2 TGGACATGGACCAAGAAG 18

RESULT 1547  
 ADC45046  
 ID ADC45046 standard; DNA; 20 BP.

XX AC ADC45046;

XX DT 18-DEC-2003 (first entry)

XX DE Yeast CYP52A5A/B genes 5' region RT-PCR primer #1.

XX KW PCR; Primer; ss; Yeast; omega oxygenase complex;  
 KW Cytochrome P450 monooxygenase; CYP; NADPH reductase enzymes; CPR; CPRA;  
 KW CPRB; CYP52A1A; CYP52A2A; CYP52A2B; CYP52A3A; CYP52A3B; CYP52A5A;  
 KW CYP52A5B; CYP52A8A; CYP52A8B; CYP52D4A; dicarboxylic acid; diester;  
 KW polymer; thermoplastic; plasticising agent; lubricant; hydraulic fluid;  
 KW agricultural chemical; pharmaceutical; dye; surfactant; adhesive;  
 KW QC-RT-PCR; quantitative competitive reverse transcription PCR.

XX OS Candida tropicalis.

XX PN US2003049821-A1.

XX PD 13-MAR-2003.

XX PF 03-MAY-2002; 2002US-00138838.

XX PR 01-MAY-1998; 98US-0083798P.

XX PR 05-OCT-1998; 98US-0103099P.

XX PR 10-MAR-1999; 99US-0123555P.

XX PR 30-APR-1999; 99US-00302620.

XX PR 12-OCT-2001; 2001US-00976800.

XX PA (WILS/) WILSON C R.

XX PA (CRAF/) CRAFT D L.

XX PA (EIRI/) EIRICH L D.

XX PA (ESHO/) ESHOO M.

XX PA (MADD/) MADDURI K M.

XX PA (CORN/) CORNETT C A.

XX PA (BREN/) BRENNER A A.

XX PA (TANG/) TANG M.

XX PA (LOPE/) LOPER J C.

XX PA (GLEE/) GLEESON M.

XX PI Wilson CR, Craft DL, Eirich LD, Eshoo M, Madduri KM, Cornett CA;

XX PI Brenner AA, Tang M, Loper JC, Gleeson M;

XX DR WPI; 2003-777150/73.

XX XX

CC monooxygenase (CYP) and NADPH reductase enzymes (CPR) designated CPRA,  
 CC CPRB, CYP52A1A, CYP52A2A, CYP52A2B, CYP52A3A, CYP52A3B, CYP52A5A,  
 CC CYP52A5B, CYP52A8A, CYP52A8B or CYP52D4A) or their coding regions. Also  
 CC included are the CPR/CYP proteins, a vector comprising the nucleic acid  
 CC cited above, a host cell transfected or transforming with the above  
 CC nucleic acid, producing the proteins, discriminating members of a gene  
 CC family by quantifying the amount of target mRNA in a sample, increasing  
 CC production of a dicarboxylic acid and increasing the production of the  
 CC proteins cited above. The host cell is C. tropicalis is specifically  
 CC H5343 ura-. The nucleic acid is useful for producing dicarboxylic acids  
 CC that may be utilised as industrial intermediates in the manufacture of  
 CC diesters and polymers (e.g. as thermoplastic chemicals, plasticising agents,  
 CC lubricants, hydraulic fluids, agricultural chemicals, pharmaceuticals,  
 CC dyes, surfactants or adhesives). The present sequence is a quantitative  
 CC competitive reverse transcription (QC-RT) PCR primer used to assay the  
 CC levels of CYP, CPR or control POX mRNA in response to exogenously added  
 CC substrates.

SQ Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03; Mismatches 0; Indels 0; Gaps 0;

Matches 15; Conservative 0

QY 1010 AGAGGGGAGAGCTCAAG 1026

||||| ||||| |||||

Db 2 AGAGGGGAGAGCTCAAG 18

RESULT 1548

ADC45616

ID ADC45616 standard; DNA; 20 BP.

XX AC ADC45616;

XX XX

XX DT 18-DEC-2003 (first entry)

XX DE Yeast CYP52A5A/B genes 5' region RT-PCR primer #1.

XX KW PCR; Primer; ss; yeast; omega oxygenase complex;  
 KW cytochrome P450 monooxygenase; CYP; NADPH reductase enzymes; CPR; CPRA;  
 KW CPRB; CYP52A1A; CYP52A2A; CYP52A2B; CYP52A3A; CYP52A3B; CYP52A5A;  
 KW CYP52A5B; CYP52A8A; CYP52A8B; CYP52D4A; dicarboxylic acid; diester;  
 KW polymer; thermoplastic; plasticising agent; lubricant; hydraulic fluid;  
 KW agricultural chemical; pharmaceutical; dye; surfactant; adhesive;  
 KW QC-RT-PCR; quantitative competitive reverse transcription PCR.

XX OS Candida tropicalis.

XX PN US2003049822-A1.

XX PD 13-MAR-2003.

XX PF 03-MAY-2002; 2002US-00139031.

XX PR 01-MAY-1998; 98US-0083798P.

XX PR 05-OCT-1998; 98US-0103099P.

XX PR 10-MAR-1999; 99US-0123555P.

XX PR 30-APR-1999; 99US-00302620.

XX PR 12-OCT-2001; 2001US-00976800.

XX PA (WILS/) WILSON C R.

XX PA (CRAF/) CRAFT D L.

XX PA (EIRI/) EIRICH L D.

XX PA (ESHO/) ESHOO M.

XX PA (MADD/) MADDURI K M.

XX PA (CORN/) CORNETT C A.

XX PA (BREN/) BRENNER A A.

XX PA (TANG/) TANG M.

XX PA (LOPE/) LOPER J C.

XX PA (GLEE/) GLEESON M.

XX PI Wilson CR, Craft DL, Eirich LD, Eshoo M, Madduri KM, Cornett CA;

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PI Brenner AA, Tang M, Loper JC, Gleeson M;
XX WPI; 2003-765370/72.
XX
XX New nucleic acid encoding cytochrome P450 and NADPH reductase enzymes
XX (e.g. CPRA, CPRB or CYP52A1A), useful for producing dicarboxylic acids
XX that may be utilized as industrial intermediates in manufacturing
XX diesters and polymers.
XX
XX Example 11; SEQ ID NO 47; 196pp; English.
XX
XX The invention relates to an isolated nucleic acid selected encoding
XX Candida tropicalis omega oxygenase complex enzymes (cytochrome P450
XX monooxygenase (CYP) and NADPH reductase enzymes (CPR) designated CPRA,
XX CPRB, CYP52A1A, CYP52A2A, CYP52A2B, CYP52A3A, CYP52A3B, CYP52A5A,
XX CYP52A5B, CYP52A8A, CYP52A8B or CYP52D4A) or their coding regions. Also
XX included are the CPR/CYP proteins, a vector comprising the nucleic acid
XX cited above, a host cell transfected or transformed with the above
XX nucleic acid, producing the proteins, discriminating members of a gene
XX family by quantifying the amount of target mRNA in a sample, increasing
XX production of a dicarboxylic acid and increasing the production of the
XX proteins cited above. The host cell is C. tropicalis is specifically
XX H5343 ura-. The nucleic acid is useful for producing dicarboxylic acids
XX that may be utilized as industrial intermediates in the manufacture of
XX diesters and polymers (e.g. as thermoplastics, plasticising agents,
XX lubricants, hydraulic fluids, agricultural chemicals, pharmaceuticals,
XX dyes, surfactants or adhesives). The present sequence is a quantitative
XX competitive reverse transcription (QC-RT) PCR primer used to assay the
XX levels of CYP, CPR or control POX mRNA in response to exogenously added
XX substrates.
XX
XX Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2;
QY 1010 AGAGGGGAGGCTCAAG 1026
Db ||||| ||||| |||||
2 AGAGGGGAGGCTCAAG 18
RESULT 1549
ADC35600/c
ID ADC35600 standard; DNA; 20 BP.
XX
XX ADC35600;
XX
XX 18-DEC-2003 (first entry)
XX
XX Human CD81/TAPA-1 antisense oligonucleotide #60.
XX
XX Antisense; ss; human; CD81; TAPA-1; tetraspanin; viral infection;
XX cocaine addiction; autoimmune disorder; anti-inflammatory; antibacterial;
XX virucide; antiparasitic; inflammatory disorder; parasitic infection;
XX bacterial infection.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /*tag= b
FT /mod_base= OTHER
FT /note= "Phosphorothioate backbone and all cytidines are 5
FT -methyl cytidines"
FT modified_base 1..5
FT /*tag= a
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl nucleotide"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl nucleotide"

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XX US2003113914-A1.
XX
XX 19-JUN-2003.
XX
XX 10-DEC-2001; 2001US-00006430.
XX
XX 10-DEC-2001; 2001US-00006430.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Graham MJ, Dobie K;
XX WPI; 2003-810907/76.
XX
XX Novel compound hybridizing with nucleic acid molecule encoding CD81 and
XX inhibiting the expression of CD81, useful for treating infections and
XX disease associated with expression of CD81 such as inflammation disorder.
XX
XX Claim 3; SEQ ID NO 72; 55pp; English.
XX
XX The invention relates to a compound (antisense oligonucleotide)
XX hybridising with the eighth nucleobase portion of an active site on a
XX nucleic acid molecule encoding CD81 (also known as TAPA-1, a tetraspanin)
XX and inhibiting the expression of CD81. Also included is a composition
XX comprising the antisense oligonucleotide and a carrier or a diluent. The
XX antisense oligonucleotide is useful for inhibiting the expression of CD81
XX in cells or tissues. The antisense oligonucleotide is also useful for
XX treating infections preferably viral, bacterial and parasitic and
XX diseases such as inflammatory disorders and autoimmune disorders. The
XX disease or condition is characterised by chemical dependency (e.g.
XX cocaine addiction). The present sequence is a CD81 antisense
XX oligonucleotide of the invention.
XX
XX Sequence 20 BP; 6 A; 4 C; 8 G; 2 T; 0 U; 0 Other;
SQ
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03; Indels 0; Gaps 0;
Matches 15; Conservative 0; Mismatches 2;
QY 1700 ACTCTCTGCTACCTGC 1716
Db ||||| ||||| |||||
17 ACTCTCTGCTTCATGC 1
RESULT 1550
ADC84236
ID ADC84236 standard; DNA; 20 BP.
XX
XX ADC84236;
XX
XX 01-JAN-2004 (first entry)
XX
XX Human papillomavirus type 6 (HPV 6) detection oligonucleotide #2.
XX
XX probe; human papilloma virus; HPV; detection; identification; ss.
XX
XX Human papillomavirus type 6.
XX
XX EP1302550-A1.
XX
XX 16-APR-2003.
XX
XX 10-OCT-2001; 2001EP-00123379.
XX
XX 10-OCT-2001; 2001EP-00123379.
XX
XX (KING-) KING CAR FOOD IND CO LTD.
XX
XX Lin C, Lin R, You C, Huang H, Lee B, Lee H, Lin Y, Fan C;
XX Hsu H, Shih C, Yeh C, Kao Y, Pan C, Chan P;
XX WPI; 2003-432398/41.
XX
XX

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XX Detector for identifying human papilloma virus subtypes, comprises  
PT carrier having two parts carrying first and second oligonucleotides that  
PT respectively hybridize with DNA contained in first and second subtypes of  
PT the virus.

XX Claim 4; SEQ ID NO 466; 221pp; English.

XX The invention comprises oligonucleotides for detecting and identifying  
CC subtypes of human papilloma virus (HPV) contained in a sample. The  
CC oligonucleotides of the invention are useful for simultaneously detecting  
CC and identifying subtypes of HPVs. The present DNA sequence represents an  
CC HPV detection oligonucleotide of the invention.

XX Sequence 20 BP; 6 A; 7 C; 1 G; 6 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1677 CCCCAACTACATCTTCC 1693  
Db 3 CCGTAACACTACATCTTCC 19

RESULT 1551  
ADC84235  
ID ADC84235 standard; DNA; 20 BP.  
XX AC ADC84235;  
XX 01-JAN-2004 (first entry)  
XX Human papillomavirus type 6 (HPV 6) detection oligonucleotide #1.  
XX probe; human papilloma virus; HPV; detection; identification; ss.  
XX Human papillomavirus type 6.  
XX EPI302550-A1.  
XX 16-APR-2003.  
XX 10-OCT-2001; 2001EP-00123379.  
XX 10-OCT-2001; 2001EP-00123379.  
XX (KING-) KING CAR FOOD IND CO LTD.  
XX Lin C, Lin R, You C, Huang H, Lee B, Lee H, Lin Y, Fan C;  
PI Hsu H, Shih C, Yeh C, Kao Y, Pan C, Chan P;  
XX WPI; 2003-432398/41.  
XX Detector for identifying human papilloma virus subtypes, comprises  
PT carrier having two parts carrying first and second oligonucleotides that  
PT respectively hybridize with DNA contained in first and second subtypes of  
PT the virus.

XX Claim 4; SEQ ID NO 465; 221pp; English.

XX The invention comprises oligonucleotides for detecting and identifying  
CC subtypes of human papilloma virus (HPV) contained in a sample. The  
CC oligonucleotides of the invention are useful for simultaneously detecting  
CC and identifying subtypes of HPVs. The present DNA sequence represents an  
CC HPV detection oligonucleotide of the invention.

XX Sequence 20 BP; 5 A; 8 C; 1 G; 6 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1677 CCCCAACTACATCTTCC 1693  
Db 4 CCGTAACACTACATCTTCC 20

RESULT 1552  
ADD69057/C  
ID ADD69057 standard; DNA; 20 BP.  
XX AC ADD69057;  
XX 15-JAN-2004 (first entry)  
XX Angiogenesis inhibitor-related PCR primer RBV8-WR2.  
XX angiogenesis inhibitor; cytostatic; antiinflammatory; cancer;  
KW ovarian disease; diabetic retinopathy; inflammatory; ZAQ; BV8; ISE; ss;  
KW PCR; primer; RBV8-WR2.  
XX Unidentified.  
XX WO2003068860-A1.  
XX 14-AUG-2003.  
XX 03-FEB-2003; 2003WO-JP001057.  
XX 04-FEB-2002; 2002JP-00027299.  
XX (TAKE ) TAKEDA CHEM IND LTD.  
XX Ontaki T, Masuda Y, Takatsu Y;  
XX WPI; 2003-646310/61.  
XX Angiogenesis inhibitors for treatment and prevention of cancer, ovarian  
PT diseases and inflammatory disease.  
XX Example 3; SEQ ID NO 35; 308pp; Japanese.  
XX The invention relates to a novel angiogenesis inhibitor comprising a  
CC compound that inhibits the activity of an amino acid sequence given in  
CC the specification. Angiogenesis-related proteins Bv8, ZAQ and ISE were  
CC utilised within the method of the invention. The molecules of the  
CC invention demonstrate cytostatic and antiinflammatory activities whilst  
CC the method may be useful for treatment and prevention of cancer, ovarian  
CC diseases, diabetic retinopathy and inflammatory disease. The current  
CC sequence is that of the angiogenesis inhibitor-related PCR primer of the  
CC invention.

XX Sequence 20 BP; 3 A; 7 C; 3 G; 7 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 862 CTGAGCAGCTACCTGGA 878  
Db 19 CTGAAGCAGGAGCTGGA 3

RESULT 1553  
ADD42212  
ID ADD42212 standard; DNA; 20 BP.  
XX AC ADD42212;  
XX 15-JAN-2004 (first entry)  
XX Human infertility associated primer SEQ ID 73.  
XX primer; male infertility; infertility-associated mutation;  
KW azoospermia factor; Y-chromosome;

KW cystic fibrosis transmembrane conductance regulator; CFTR;  
 KW Kallmann syndrome; KAL1; androgen resistance; steroid 21-hydroxylase;  
 KW CYP21; microarray; quantitative trait locus; in vitro fertilization;  
 KW oligospermia; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO2003050299-A2.  
 XX  
 PD 19-JUN-2003.  
 XX  
 PF 10-DEC-2002; 2002WO-EP013995.  
 XX  
 PR 10-DEC-2001; 2001DE-01060563.  
 XX  
 PA (OGHA-) OGHAM GMBH.  
 XX  
 PI Cullen P, Seedorf U;  
 XX  
 XX WPI; 2003-505402/47.  
 DR  
 XX  
 XX Investigating male genetic infertility, useful for diagnosis e.g. for  
 PT assessing suitability for in vitro fertilization, based on multifactorial  
 PT analysis of infertility-related mutations.  
 XX  
 XX Claim 13; SEQ ID NO 73; 110pp; German.  
 PS  
 XX This invention describes a novel method for investigating genetic  
 CC infertility or predisposition in males. The method involves selecting at  
 CC least two infertility-associated mutations which are recessive or  
 CC intermediate that are associated with infertility in the heterozygous  
 CC state and/or only in the homozygous state. Preferably at least one  
 CC azoospermia factor is detected which may be lost by microdeletions in  
 CC intervals 5 or 6 of the Y-chromosome. Also any of several hundred  
 CC mutations, listed, present in the cystic fibrosis transmembrane  
 CC conductance regulator (CFTR), Kallmann syndrome (KAL1), androgen  
 CC resistance (AR) or steroid 21-hydroxylase (CYP21) genes may be detected.  
 CC Probes for the mutated genes and/or native nucleic acid, or their  
 CC complementary strands, are fixed to a carrier, particularly as a  
 CC microarray, then tested for hybridization with oligonucleotides from or  
 CC synthesized from, a patient sample and hybridization detected.  
 CC Multifactorial analysis is by standard statistical methods, particularly  
 CC the quantitative trait locus method. The method is used to diagnose  
 CC inherited male infertility or predisposition to its, especially in  
 CC conjunction with in vitro fertilization programs, e.g. for assessing  
 CC subjects with oligospermia for possible application of the  
 CC intracytoplasmic sperm injection method. Analysis of many mutations  
 CC improves diagnosis of the genetic basis of male infertility, including  
 CC polygenic origins (complex interactions between different heterozygotic  
 CC mutations). A chip for analyzing genetic infertility in males comprises  
 CC oligonucleotides that represent known mutations (nonsense or missense,  
 CC insertions, allelic variants deletions or rearrangements) in the cystic  
 CC fibrosis transmembrane conductance regulator, Kallmann syndrome, androgen  
 CC resistance and steroid 21-hydroxylase genes. ADD42140-ADD42633 represent  
 CC oligonucleotides used in the microarray described in the method of the  
 CC invention. NOTE: there are no SEQ ID's 133, 472 or 473 represented in the  
 CC SEQ ID list of the specification.  
 XX  
 XX Sequence 20 BP; 6 A; 3 C; 7 G; 4 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 577 GTCAGCCTATCTGAGAT 593  
 Db 4 GGCAGCCTATGTGAGAT 20  
 RESULT 1554  
 ADE28941/c  
 ID ADE28941 standard; DNA; 20 BP.  
 XX

AC ADE28941;  
 XX  
 XX 29-JAN-2004 (first entry)  
 XX  
 DE Reverse Ag2597 RT-PCR primer used to amplify human NOV RNA.  
 XX  
 XX  
 KW NOVX; antidiabetic; anorectic; cardiant; hypotensive;  
 KW antiarteriosclerotic; virucide; antibacterial; fungicide; protozoacide;  
 KW nootropic; neuroprotective; antiparkinsonian; anticonvulsant;  
 KW osteopathic; antiarthritic; antiinflammatory; dermatological;  
 KW anorexia; cancer; cardiovascular; metabolic; diabetes; obesity; infectious;  
 KW neurodegenerative; Alzheimer's disease; Parkinson's; epilepsy; immune;  
 KW osteoarthritis; haemopoietic; inflammatory skin; asthma; dyslipidaemia;  
 KW neurogenesis; cell differentiation; proliferation; haemopoiesis;  
 KW wound healing; angiogenesis; gene therapy; chromosome mapping;  
 KW tissue typing; human; NOV; PCR; primer; ss; RT-PCR.  
 XX  
 XX Homo sapiens.  
 XX  
 XX WO2003040330-A2.  
 PN  
 XX  
 PD 15-MAY-2003.  
 XX  
 XX 05-NOV-2002; 2002WO-US035536.  
 PF  
 XX  
 XX 05-NOV-2001; 2001US-0338626P.  
 PR  
 PR 05-DEC-2001; 2001US-0338600P.  
 PR  
 PR 07-DEC-2001; 2001US-0338285P.  
 PR  
 PR 12-DEC-2001; 2001US-0341346P.  
 PR  
 PR 17-DEC-2001; 2001US-0341477P.  
 PR  
 PR 17-DEC-2001; 2001US-0341540P.  
 PR  
 PR 20-DEC-2001; 2001US-0342592P.  
 PR  
 PR 27-DEC-2001; 2001US-0344297P.  
 PR  
 PR 31-DEC-2001; 2001US-0344903P.  
 PR  
 PR 17-APR-2002; 2002US-0373288P.  
 PR  
 PR 15-MAY-2002; 2002US-0380981P.  
 PR  
 PR 17-MAY-2002; 2002US-0381495P.  
 PR  
 PR 28-MAY-2002; 2002US-0383534P.  
 PR  
 PR 28-MAY-2002; 2002US-0383744P.  
 PR  
 PR 29-MAY-2002; 2002US-0383829P.  
 PR  
 PR 29-MAY-2002; 2002US-0384024P.  
 PR  
 PR 07-AUG-2002; 2002US-0401788P.  
 PR  
 PR 26-AUG-2002; 2002US-0406353P.  
 PR  
 PR 31-OCT-2002; 2002US-00287971.  
 XX  
 XX (CURA-) CURAGEN CORP.  
 PA  
 XX Alsobrook JP, Alvarez E, Anderson DW, Baron M, Boldog FL;  
 PI Burgess CE, Casman SJ, Chapoval A, Dhanabal M, Edinger SR, Eisen A;  
 PI Ellerman K, Ettenberg S, Gangolli EA, Gerlach VL, Gorman L;  
 PI Grosse WM, Guo X, Hackett C, Ji W, Kekuda R, Khrantsov NV;  
 PI Lepley DM, Li L, Macdougall JR, Malyankar UM, Mazur A, McQueeney K;  
 PI Mezes PS, Miller CE, Millet I, Mishra VS, Padigar M, Patturajan M;  
 PI Pena CEA, Peyman JA, Rastelli L, Rieger DK, Shenoy SG, Shinkets RA;  
 PI Smithson G, Starling G, Spyttek KA, Stone DJ, Tchernev VT, Twomlow N;  
 PI Vernet CAM, Zerhusen BD, Zhong M;  
 XX  
 XX WPI; 2003-441555/41.  
 DR  
 XX  
 XX New isolated NOVX polypeptides and polynucleotides, useful for  
 PT preventing, diagnosing or treating NOVX-associated disorders, e.g.  
 PT osteoarthritis, obesity, atherosclerosis, cancer, Parkinson's disease,  
 PT asthma, or infections.  
 PT  
 XX  
 XX Example C; SEQ ID NO 318; 447pp; English.  
 XX  
 XX The invention relates to a novel isolated NOVX polypeptide. The  
 CC polypeptide of the invention demonstrates, antidiabetic, anorectic,  
 CC cardiant, hypotensive, antiarteriosclerotic, virucide, antibacterial,  
 CC fungicide, protozoacide, nootropic, neuroprotective, antiparkinsonian,  
 CC anticonvulsant, osteopathic, antiarthritic, antiinflammatory, the  
 CC dermatological, antiasthmatic and antilipaeamic activities. The

CC polypeptides, nucleic acid molecules and antibodies may be useful for  
 CC treating or diagnosing diseases including metabolic disorders such as  
 CC diabetes and obesity, infectious diseases, anorexia, cancer,  
 CC cardiovascular diseases including hypertension and atherosclerosis,  
 CC neurodegenerative disorders such as Alzheimer's disease, Parkinson's  
 CC disease and epilepsy, immune disorders e.g. osteoarthritis, haemopoietic  
 CC disorders, inflammatory skin disorders, asthma and dyslipidaemia.  
 CC Furthermore, the nucleic acids and polypeptides may also be used to  
 CC identify molecules that modulate or inhibit neurogenesis, cell  
 CC differentiation and proliferation, haemopoiesis, wound healing and  
 CC angiogenesis, as well as in gene therapy. Finally, the nucleic acids may  
 CC be used as hybridisation probes, in chromosome mapping, tissue typing,  
 CC preventive medicine and pharmacogenomics. The current sequence is that of  
 CC the RT-PCR primer which was used within the exemplification of the  
 CC invention.

XX  
 SQ Sequence 20 BP; 10 A; 3 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1240 TTCATCTCCGATCTT 1256

DB 18 TTCATCTCCGATTTT 2

RESULT 1555

AD52127  
 ID ADE52127 standard; DNA; 20 BP.

XX AC ADE52127;

XX DT 29-JAN-2004 (first entry)

XX DE C. tropicalis CYP52A5A/B QC-RT-PCR primer #1.

XX KW Yeast; ss; PCR; primer; cytochrome P450; CYP; NADPH reductase; CPR;  
 KW omega-hydroxylase complex; omega-oxidation; long chain fatty acid;  
 KW QC-RT PCR; Quantitative competitive reverse transcriptase PCR.

XX OS Candida tropicalis.

XX FN US2003073220-A1.

XX PD 17-APR-2003.

XX PF 03-MAY-2002; 2002US-00138916.

XX PR 01-MAY-1998; 98US-0083798P.

XX PR 05-OCT-1998; 98US-0103099P.

XX PR 10-MAR-1999; 99US-0123555P.

XX PR 30-APR-1999; 99US-00302620.

XX PR 12-OCT-2001; 2001US-00976800.

XX PA (WILS/) WILSON C R.

XX PA (CRAF/) CRAFT D L.

XX PA (EIRI/) EIRICH L D.

XX PA (ESHO/) ESHOO M.

XX PA (MADD/) MADDURI K M.

XX PA (CORN/) CORNETT C A.

XX PA (BREN/) BRENNER A A.

XX PA (TANG/) TANG M.

XX PA (LOPE/) LOPEZ J C.

XX PA (GLEE/) GLEESON M.

XX PI Wilson CR, Craft DL, Eirich LD, Eshoo M, Madduri KM, Cornett CA;

XX PI Brenner AA, Tang M, Loper JC, Gleeson M;

XX DR WPI; 2003-625522/59.

XX PT New cytochrome P450 and NADPH oxidoreductase, i.e. CPR and CYP, genes and  
 PT proteins, useful for discriminating members of a gene family by

PT quantifying the amount of target mRNA in a sample, or for omega-oxidation  
 PT of long chain fatty acids.

XX Example 11; SEQ ID NO 47; 194pp; English.

XX The invention relates to isolated nucleic acids encoding cytochrome P450  
 CC (CYP) and NADPH reductase (CPR) enzymes of the omega-hydroxylase complex  
 CC of Candida tropicalis. Also included are the CYP and CPR proteins  
 CC (comprising CPRA, CPRB, CYP52A1A, CYP52A2A, CYP52A2B, CYP52A3A, CYP52A3B,  
 CC CYP52A5A, CYP52A5B, CYP52A8A, CYP52A8B, or CYP52D4A), a vector comprising  
 CC any one of the nucleic acid sequences cited above, a host cell  
 CC transfected or transformed with the nucleic acid, methods of producing  
 CC the CPR or CYP proteins, a method for discriminating members of a gene  
 CC family by quantifying the amount of target mRNA in a sample and methods  
 CC for increasing the production of a dicarboxylic acid, (or the CPR/CYP  
 CC proteins). The CPR and CYP genes and proteins are useful for  
 CC discriminating members of a gene family by quantifying the amount of  
 CC target mRNA in a sample, for increasing production of a dicarboxylic  
 CC acid, or for omega-oxidation of long chain fatty acids. The technique of  
 CC Quantitative competitive reverse transcriptase PCR (QC-RT PCR) was used  
 CC to quantitate the CPR/CYP mRNA in RNA sample. The present sequence is a  
 CC QC-RT PCR primer used in the analysis.

XX SQ Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1010 AGAGGGGAGGCTCAAG 1026

DB 2 AGAGGGGAGGCTCAAG 18

RESULT 1556

ADF44137

ID ADF44137 standard; DNA; 20 BP.

XX AC ADF44137;

XX DT 12-FEB-2004 (first entry)

XX DE HPV 6 detecting probe M0601.

XX KW detection; human papillomavirus; HPV subtype; probe; ss.

XX OS Human papillomavirus type 6.

XX FN JP2002360271-A.

XX PD 17-DEC-2002.

XX PF 28-NOV-2001; 2001JP-00362595.

XX PR 04-MAY-2001; 2001TW-00110785.

XX PA (KING-) KING CAR FOOD IND CO LTD.

XX DR WPI; 2003-600935/57.

XX A detecting apparatus and a detecting method for identifying the subtypes  
 PT of many species of human papilloma viruses at the same time and a  
 PT composition for the detection.

XX PS Claim 1; SEQ ID NO 494; 166pp; Japanese.

XX This invention describes a novel detecting apparatus for identifying the  
 CC subtypes of human papillomaviruses (HPV) contained in a sample which  
 CC comprises a carrier which can load sample, a first oligonucleotide loaded  
 CC on first part of the carrier and a second oligonucleotide loaded on  
 CC second part of carrier, in which first and second oligonucleotides  
 CC hybridise with the DNA of the first and the second HPV subtype and can  
 CC identify HPV subtype contained in sample at the same time. ADF43644-

```

CC ADF44289 represent oligonucleotide probes used in the method of the
CC invention.
XX
XX Sequence 20 BP; 5 A; 8 C; 1 G; 6 T; 0 U; 0 Other;
SQ
    Query Match      0.8%; Score 13.8; DB 1; Length 20;
    Best Local Similarity 88.2%; Pred. No. 1e+03;
    Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1677 CCCCACTACATCTTCC 1693
Db 4 CCGTAACTACATCTTCC 20

RESULT 1557
ADF44138
ID ADF44138 standard; DNA; 20 BP.
XX
XX ADF44138;
AC
XX 12-FEB-2004 (first entry)
DT
XX HPV 6 detecting probe M0602.
DE
XX detection; human papillomavirus; HPV subtype; probe; ss.
XX
XX Human papillomavirus type 6.
OS
XX JP2002360271-A.
PN
XX 17-DEC-2002.
PD
XX
XX 28-NOV-2001; 2001JP-00362595.
PF
XX
XX 04-MAY-2001; 2001TW-00110785.
PR
XX (KING-) KING CAR FOOD IND CO LTD.
PA
XX WPI; 2003-600935/57.
DR
XX
XX A detecting apparatus and a detecting method for identifying the subtypes
PT of many species of human papilloma viruses at the same time and a
PT composition for the detection.
PT
XX Claim 1; SEQ ID NO 495; 166pp; Japanese.
PS
XX
XX This invention describes a novel detecting apparatus for identifying the
CC subtypes of human papillomaviruses (HPV) contained in a sample which
CC comprises a carrier which can load sample, a first oligonucleotide loaded
CC on first part of the carrier and a second oligonucleotide loaded on
CC second part of carrier, in which first and second oligonucleotides
CC hybridise with the DNA of the first and the second HPV subtype and can
CC identify HPV subtype contained in sample at the same time. ADF43644-
CC ADF44289 represent oligonucleotide probes used in the method of the
CC invention.
XX
XX Sequence 20 BP; 6 A; 7 C; 1 G; 6 T; 0 U; 0 Other;
SQ
    Query Match      0.8%; Score 13.8; DB 1; Length 20;
    Best Local Similarity 88.2%; Pred. No. 1e+03;
    Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1677 CCCCACTACATCTTCC 1693
Db 3 CCGTAACTACATCTTCC 19

RESULT 1558
ADF70749
ID ADF70749 standard; DNA; 20 BP.
XX
XX ADF70749;
AC
XX

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```

DT 12-FEB-2004 (first entry)
XX
XX Hepatitis B virus PreS1 probe, SEQ ID 9.
XX
XX PreS1; HBV; probe; ss.
XX
XX Hepatitis B virus.
OS
XX JP2002355098-A.
PN
XX 10-DEC-2002.
PD
XX 14-AUG-2001; 2001JP-00246141.
PF
XX 14-AUG-2000; 2000JP-00245606.
PR
XX (GENO-) GENOME SCI KENKYUSHO KK.
XX
XX WPI; 2003-451644/43.
DR
XX Classification of genotype of hepatitis B viruses and primers and probes
PT for the method.
PT
XX Claim 3; Page 3; 13pp; Japanese.
PS
XX
XX The present invention relates to a method for judging the genotype of
CC hepatitis B viruses (HBV) in which part of the gene sequence of the PreS1
CC region of HBV is amplified by PCR using labelled primers and the
CC amplified product is hybridized with HBV type A, B, C, D, E, F and G gene
CC -specific probes and the label in the PCR product is detected.
XX
XX Sequence 20 BP; 8 A; 7 C; 2 G; 3 T; 0 U; 0 Other;
SQ
    Query Match      0.8%; Score 13.8; DB 1; Length 20;
    Best Local Similarity 88.2%; Pred. No. 1e+03;
    Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1058 CAATCCCAACAAGACA 1074
Db 1 CAATCTCAACAGGACA 17

RESULT 1559
ADF72434
ID ADF72434 standard; DNA; 20 BP.
XX
XX ADF72434;
AC
XX 12-FEB-2004 (first entry)
DT
XX C. tropicalis CYP52A5 gene QC-RT-PCR primer seq id 47.
DE
XX CYP52A2B; cytochrome P450; NADH reductase; dicarboxylic acid production;
XX organic substrate oxidation; fatty acid oxidation;
XX gene integration vector; CYP; CYP52A5; QC-RT-PCR;
XX quantitative competition reverse transcriptase PCR; primer; ss.
XX
XX Candida tropicalis.
OS
XX US2003077795-A1.
PN
XX 24-APR-2003.
PD
XX
XX 12-OCT-2001; 2001US-00976800.
PF
XX
XX 10-MAR-1999; 99US-0123555P.
PR
XX (WILS/) WILSON C R.
PA (CRAF/) CRAFT D L.
PA (BIRI/) EIRICH L D.
PA (ESHO/) ESHOO M.
PA (MADD/) MADDURI K M.
PA (CORN/) CORNETT C A.

```



PA (BREN/) BRENNER A A.  
 PA (TANG/) TANG M.  
 PA (LOPE/) LOPE J C.  
 PA (GLEE/) GLEESON M.  
 XX  
 XX Wilson CR, Craft DL, Eirich LD, Eshoo M, Madduri KM, Cornett CA;  
 PI Brenner AA, Tang M, Loper JC, Gleeson M;  
 XX WPI; 2003-810780/76.  
 DR  
 XX  
 XX New nucleic acids encoding a CYP52A2B protein useful for increasing the  
 PT production of dicarboxylic acid for oxidizing organic substrates such as  
 PT fatty acids.  
 XX  
 XX Example 10; SEQ ID NO 47; 188pp; English.  
 PS  
 XX  
 XX The invention describes an isolated nucleic acid encoding a CYP52A2B  
 CC protein comprising the fully defined sequence of 522 amino acids, as  
 CC given in the specification, and comprising a coding region defined by  
 CC nucleotides 1072-2640 of a fully defined sequence of 3755 base pairs, as  
 CC given in the specification. The nucleic acids encoding the cytochrome  
 CC P450 and NADH reductase enzymes of *Candida tropicalis* are useful for  
 CC increasing the production of dicarboxylic acid for oxidizing organic  
 CC substrates such as fatty acids. This sequence represents a quantitative  
 CC competition reverse transcriptase PCR (QC-RT-PCR) primer for quantating  
 CC the level of *Candida tropicalis* CYP52A5 RNA in a sample.  
 XX  
 XX Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1010 AGAGGGGAGAGCTCAAG 1026  
 Db ||||| ||||| ||||| |||||  
 2 AGAGGGGAGAGCTCAAG 18

RESULT 1560  
 ADF11874  
 ID ADF11874 standard; DNA; 20 BP.  
 XX  
 AC ADF11874;  
 XX  
 DT 12-FEB-2004 (first entry)  
 XX  
 DE C. tropicalis QC-RT-PCR primer #11.  
 XX  
 KW ss; primer; QC-RT-PCR; CPRA; CYP52A1A; CYP52A2A; CYP52A2B;  
 KW CYP52A3A; CYP52A3B; CYP52A5A; CYP52A5B; CYP52A8A; CYP52A8B; CYP52D4A;  
 KW gene family; quantitative competitive reverse transcription.  
 XX  
 OS *Candida tropicalis*.  
 XX  
 PN US2003153060-A1.  
 XX  
 PD 14-AUG-2003.  
 XX  
 PF 03-MAY-2002; 2002US-00139218.  
 XX  
 PR 01-MAY-1998; 98US-0083798P.  
 PR 05-OCT-1998; 98US-0103099P.  
 PR 10-MAR-1999; 99US-0123555P.  
 PR 30-APR-1999; 99US-00302620.  
 PR 12-OCT-2001; 2001US-00976800.  
 XX  
 PA (WILS/) WILSON C R.  
 PA (CRAF/) CRAFT D L.  
 PA (EIRI/) EIRICH L D.  
 PA (ESHO/) ESHOO M.  
 PA (MADD/) MADDURI K M.  
 PA (CORN/) CORNETT C A.  
 PA (MADD/) MADDURI K M.  
 PA (CORN/) CORNETT C A.  
 PA (BREN/) BRENNER A A.

PA (TANG/) TANG M.  
 PA (LOPE/) LOPE J C.  
 PA (GLEE/) GLEESON M.  
 XX  
 XX Wilson CR, Craft DL, Eirich LD, Eshoo M, Madduri KM, Cornett CA;  
 PI Brenner AA, Tang M, Loper JC, Gleeson M;  
 XX WPI; 2003-897719/82.  
 DR  
 XX  
 XX New CPRA, CPRA, CYP52A1A, CYP52A2A, CYP52A2B, CYP52A3A, CYP52A3B,  
 PT CYP52A5A, CYP52A5B, CYP52A8A, CYP52A8B or CYP52D4A gene, useful for  
 PT increasing production of dicarboxylic acid.  
 XX  
 XX Example 11; SEQ ID NO 47; 194pp; English.  
 PS  
 XX  
 XX The invention relates to a new isolated nucleic acid which encodes a  
 CC CPRA, CPRA, CYP52A1A, CYP52A2A, CYP52A3A, CYP52A3B, CYP52A5A,  
 CC CYP52A5B, CYP52A8A, CYP52A8B or CYP52D4A protein. The nucleic acid is  
 CC useful for discriminating between members of a gene family by quantifying  
 CC the amount of mRNA in a sample. The present sequence represents a *Candida*  
 CC *tropicalis* quantitative competitive reverse transcription (QC-RT)-PCR  
 CC primer.  
 XX  
 XX Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;  
 PS  
 XX  
 XX Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1010 AGAGGGGAGAGCTCAAG 1026  
 Db ||||| ||||| ||||| |||||  
 2 AGAGGGGAGAGCTCAAG 18

RESULT 1561  
 ADF11756  
 ID ADF11756 standard; DNA; 20 BP.  
 XX  
 AC ADF11756;  
 XX  
 DT 12-FEB-2004 (first entry)  
 XX  
 DE C. tropicalis QC-RT-PCR primer #11.  
 XX  
 KW ss; primer; QC-RT-PCR; CPRA; CYP52A1A; CYP52A2A; CYP52A2B;  
 KW CYP52A3A; CYP52A3B; CYP52A5A; CYP52A5B; CYP52A8A; CYP52A8B; CYP52D4A;  
 KW gene family; quantitative competitive reverse transcription.  
 XX  
 OS *Candida tropicalis*.  
 XX  
 PN US2003148486-A1.  
 XX  
 PD 07-AUG-2003.  
 XX  
 PF 03-MAY-2002; 2002US-00139296.  
 XX  
 PR 01-MAY-1998; 98US-0083798P.  
 PR 05-OCT-1998; 98US-0103099P.  
 PR 10-MAR-1999; 99US-0123555P.  
 PR 30-APR-1999; 99US-00302620.  
 PR 12-OCT-2001; 2001US-00976800.  
 XX  
 PA (WILS/) WILSON C R.  
 PA (CRAF/) CRAFT D L.  
 PA (EIRI/) EIRICH L D.  
 PA (ESHO/) ESHOO M.  
 PA (MADD/) MADDURI K M.  
 PA (CORN/) CORNETT C A.  
 PA (BREN/) BRENNER A A.  
 PA (TANG/) TANG M.  
 PA (LOPE/) LOPE J C.  
 PA (GLEE/) GLEESON M.

PI Wilson CR, Craft DL, Birch LD, Eshoo M, Madduri KM, Cornett CA;  
 PI Brenner AA, Tang M, Loper JC, Gleeson M;  
 XX WPI; 2003-897579/82.  
 XX  
 XX New CPRA, CPRB, CYP52A1A, CYP52A2A, CYP52A2B, CYP52A3A, CYP52A3B,  
 PT CYP52A5A, CYP52A5B, CYP52A8A, CYP52A8B or CYP52D4A gene, useful for  
 PT discriminating members of a gene family.  
 XX  
 XX Example 11; SEQ ID NO 47; 196pp; English.  
 XX  
 XX The invention relates to a new isolated nucleic acid which encodes a  
 CC CPRA, CPRB, CYP52A1A, CYP52A2A, CYP52A2B, CYP52A3A, CYP52A3B, CYP52A5A,  
 CC CYP52A5B, CYP52A8A, CYP52A8B or CYP52D4A protein. The nucleic acid is  
 CC useful for discriminating between members of a gene family by quantifying  
 CC the amount of mRNA in a sample. The present sequence represents a candida  
 CC tropicalis quantitative competitive reverse transcription (QC-RT)-PCR  
 CC primer.  
 XX  
 XX Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;  
 SQ  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1010 AGAGGGGAGGCTCAAG 1026  
 Db ||||| ||||| ||||| |||||  
 2 AGAGGGGAGGCTCAAG 18  
 RESULT 1562  
 ADF53068/C  
 ID ADF53068 standard; DNA; 20 BP.  
 XX  
 XX ADF53068;  
 XX  
 XX 12-FEB-2004 (first entry)  
 XX  
 XX Variant detecting primer extension assay extension primer, SEQ ID NO 24.  
 XX  
 XX variant detection; primer extension assay; mutation; cancer;  
 KW heterogeneous; sporadic mutation; genotyping; pooled sample; primer; ss.  
 XX  
 XX Unidentified.  
 OS  
 XX WO2003071252-A2.  
 PN  
 XX 28-AUG-2003.  
 PD  
 XX 18-FEB-2003; 2003WO-US004827.  
 PF  
 XX 15-FEB-2002; 2002US-0357585P.  
 PR  
 XX (EXAC-) EXACT SCI CORP.  
 XX  
 XX Shuber AP, Kann L, Whitney D;  
 PI  
 XX WPI; 2003-697649/66.  
 DR  
 XX  
 XX Detecting a variant in a primer extension assay, useful for analyzing  
 PT molecular events for identifying mutations indicative of cancer, by  
 PT contacting a target nucleic acid primer complementary to a region of the  
 PT target nucleic acid.  
 XX  
 XX Example 3; SEQ ID NO 24; 54pp; English.  
 PS  
 XX The invention relates to a novel method for detecting a variant in a  
 CC primer extension assay, useful for analysing molecular events for  
 CC identifying mutations indicative of cancer, by contacting a target  
 CC nucleic acid primer complementary to a region of the target nucleic acid.  
 CC Detecting a variant in a primer extension assay comprises contacting a  
 CC target nucleic acid primer complementary to a region of the target  
 CC nucleic acid, and extending the primer in the presence of a first

CC nucleotide that is complementary to a first variant nucleotide suspected  
 CC to be at a position downstream of the region and a second nucleotide that  
 CC is complementary to a second variant nucleotide at the position, thus to  
 CC reduce misincorporation of the first nucleotide on a template comprising  
 CC the second variant nucleotide. The methods are useful for analysing  
 CC molecular events for identifying individuals with mutations indicative of  
 CC cancer. They are particularly useful in detecting a rare mutation in a  
 CC heterogeneous biological sample (e.g. sporadic mutation in a  
 CC heterogeneous patient sample), detecting rare genotypes in genotyping  
 CC reactions (e.g. viral genotyping reactions), or detecting mutant or viral  
 CC sequences in pooled samples (e.g. detecting polymorphisms or inherited  
 CC sequence variations in pooled patient samples). This polynucleotide  
 CC sequence represents a primer used as part of the primer extension assay  
 CC of the invention.  
 XX  
 XX Sequence 20 BP; 7 A; 5 C; 3 G; 5 T; 0 U; 0 Other;  
 SQ

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 863 TGAAGCNGTACCTGGAT 879  
 Db ||||| ||||| ||||| |||||  
 17 TGAAGAGGTTCTGGAT 1

RESULT 1563  
 ADF88236  
 ID ADF88236 standard; DNA; 20 BP.  
 XX  
 XX ADF88236;  
 XX  
 XX 26-FEB-2004 (first entry)  
 XX

DE Single nucleotide polymorphism detection primer, SEQ ID NO 1819.

XX human; single nucleotide polymorphism; microarray; side effect; ss;  
 KW primer; PCR.  
 KW

OS Synthetic.

OS Homo sapiens.

XX JP2003235571-A.  
 PN

XX 26-AUG-2003.  
 XX

XX 12-FEB-2002; 2002JP-00034717.  
 PF

XX 12-FEB-2002; 2002JP-00034717.  
 PR

XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.  
 XX

XX WPI; 2003-820454/77.  
 DR

XX Novel polynucleotide useful for detecting single nucleotide polymorphisms  
 PT in human gene.  
 PT

XX Claim 2; SEQ ID NO 1819; 704pp; Japanese.  
 PS

XX The invention relates to a novel polynucleotide isolated and purified  
 CC from a human gene having any one of 935 fully defined sequences as given  
 CC in specification, or a sequence having a base substitution. The invention  
 CC further relates to: an oligonucleotide containing single nucleotide  
 CC polymorphisms; a PCR primer set chosen from the combination of two DNA  
 CC fragments from any one of 1220 fully defined sequences as given in  
 CC specification; a labelling probe containing the SNP containing oligo; and  
 CC a microarray equipped with the SNP containing oligo. The isolated human  
 CC gene of the invention is useful for detecting the single nucleotide  
 CC polymorphisms in human gene. The isolated human gene is also useful for  
 CC diagnosis of disease and determination of side effect to a medical agent.  
 CC The isolated human gene is also effective in detecting single nucleotide  
 CC polymorphisms in a human gene. This polynucleotide sequence represents  
 CC one of the PCR primers used in the single nucleotide polymorphism

CC detection method of the invention.

XX Sequence 20 BP; 3 A; 1 C; 11 G; 5 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 227 AGATTGGTGGTGGGC 243

|||||

Db 4 AGATTGGTGGAGTGGC 20

RESULT 1564

ABZ86270/C

ID ABZ86270 standard; DNA; 20 BP.

XX

AC ABZ86270;

XX

DT 17-OCT-2003 (first entry)

XX

DE Human oligonucleotide sequence.

XX

KW Human; antisense; lung dysfunction; nasal airway dysfunction;

KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;

KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;

KW antisense gene therapy; respiratory; lung; adenosine sensitivity;

KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;

KW lung inflammation; respiratory disease; ds.

XX

OS Homo sapiens.

XX

FN WO200285308-A2.

XX

PD 31-OCT-2002.

XX

XX 23-APR-2002; 2002WO-US013135.

PF

XX 24-APR-2001; 2001US-0286137P.

PR

XX (EPIG-) EPIGENESIS PHARM INC.

PA

XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;

PI Miller S, Tang L, Shahabuddin S;

XX

XX WPI; 2003-229219/22.

DR

XX

PT Pharmaceutical composition for treating ailments associated with impaired

PT respiration, has oligo(s) antisense to specific gene(s) or its

PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

PT ubiquinone.

XX

PS Claim 15; SEQ ID NO 1512; 872pp; English.

XX

CC The invention relates to a novel pharmaceutical composition, which has a

CC first active agent comprising an oligonucleotide antisense to the

CC initiation codon, coding region, 5' or 3' end genomic flanking regions,

CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of

CC junctions of genes encoding a polypeptide associated with lung and/or

CC nasal airway dysfunction and a second active agent comprising an

CC antiinflammatory steroid and ubiquinone. A composition of the invention

CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,

CC immunosuppressive, and cytostatic activity. The composition may have a

CC use in antisense gene therapy. The composition is useful for treating or

CC preventing a respiratory, lung or malignant disease or condition, also

CC for enhancing the prophylactic or therapeutic respiratory effect of an

CC antiinflammatory steroid in a subject, for reducing or depleting levels

CC of, or reducing sensitivity to adenosine, reducing levels of adenosine

CC receptor, producing bronchodilation, increasing levels of ubiquinone or

CC lung surfactant in a subject's tissue, or treating bronchoconstriction,

CC lung inflammation, lung allergies, or a respiratory disease or condition.

CC Note: The sequence data for this patent is not represented in the printed

CC specification, but was obtained in electronic format directly from WIPO

CC at ftp.wipo.int/pub/published\_pct\_sequences

XX

SQ Sequence 20 BP; 4 A; 4 C; 5 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 58 TGACTGCTGAACCCAG 74

|||||

Db 19 TGACTGCTGAATAACAG 3

RESULT 1565

ABZ89410/C

ID ABZ89410 standard; DNA; 20 BP.

XX

AC ABZ89410;

XX

DT 17-OCT-2003 (first entry)

XX

DE Human oligonucleotide sequence.

XX

KW Human; antisense; lung dysfunction; nasal airway dysfunction;

KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;

KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;

KW antisense gene therapy; respiratory; lung; adenosine sensitivity;

KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;

KW lung inflammation; respiratory disease; ds.

XX

OS Homo sapiens.

XX

FN WO200285308-A2.

XX

PD 31-OCT-2002.

XX

XX 23-APR-2002; 2002WO-US013135.

PF

XX 24-APR-2001; 2001US-0286137P.

PR

XX (EPIG-) EPIGENESIS PHARM INC.

PA

XX Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;

PI Miller S, Tang L, Shahabuddin S;

XX

XX WPI; 2003-229219/22.

DR

XX

PT Pharmaceutical composition for treating ailments associated with impaired

PT respiration, has oligo(s) antisense to specific gene(s) or its

PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or

PT ubiquinone.

XX

PS Disclosure; SEQ ID NO 4652; 872pp; English.

XX

CC The invention relates to a novel pharmaceutical composition, which has a

CC first active agent comprising an oligonucleotide antisense to the

CC initiation codon, coding region, 5' or 3' end genomic flanking regions,

CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of

CC junctions of genes encoding a polypeptide associated with lung and/or

CC nasal airway dysfunction and a second active agent comprising an

CC antiinflammatory steroid and ubiquinone. A composition of the invention

CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,

CC immunosuppressive, and cytostatic activity. The composition may have a

CC use in antisense gene therapy. The composition is useful for treating or

CC preventing a respiratory, lung or malignant disease or condition, also

CC for enhancing the prophylactic or therapeutic respiratory effect of an

CC antiinflammatory steroid in a subject, for reducing or depleting levels

CC of, or reducing sensitivity to adenosine, reducing levels of adenosine

CC receptor, producing bronchodilation, increasing levels of ubiquinone or

CC lung surfactant in a subject's tissue, or treating bronchoconstriction,

CC lung inflammation, lung allergies, or a respiratory disease or condition.

CC Note: The sequence data for this patent is not represented in the printed

CC specification, but was obtained in electronic format directly from WIPO

```
CC at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 20 BP; 6 A; 6 C; 2 G; 6 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 343 TTGAAGATGGGTCTGA 359
    |||||
Db 20 TTGAAGATGAAGTCTGA 4

RESULT 1566
ABZ97631
ID ABZ97631 standard; DNA; 20 BP.
XX
AC ABZ97631;
XX
DT 17-OCT-2003 (first entry)
XX
DE Human IL5-R oligonucleotide sequence.
XX
KW Human; antisense; lung dysfunction; nasal airway dysfunction;
KW antiinflammatory steroid; ubiquinone; antiinflammatory; antiallergic;
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
KW lung inflammation; respiratory disease; ds.
XX
OS Homo sapiens.
XX
PN WO200285308-A2.
XX
PD 31-OCT-2002.
XX
PF 23-APR-2002; 2002WO-US013135.
XX
PR 24-APR-2001; 2001US-0286137P.
XX
PA (EPIG-) EPIGENESIS PHARM INC.
XX
PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX
XX WPI; 2003-229219/22.
XX
XX Pharmaceutical composition for treating ailments associated with impaired
XX respiration, has oligo(s) antisense to specific gene(s) or its
XX corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
XX ubiquinone.
XX
XX Disclosure; SEQ ID NO 12873; 872pp; English.
XX
XX The invention relates to a novel pharmaceutical composition, which has a
XX first active agent comprising an oligonucleotide antisense to the
XX initiation codon, coding region, 5' or 3' end genomic flanking regions,
XX 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
XX junctions of genes encoding a polypeptide associated with lung and/or
XX nasal airway dysfunction and a second active agent comprising an
XX antiinflammatory steroid and ubiquinone. A composition of the invention
XX has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
XX immunosuppressive, and cytostatic activity. The composition may have a
XX use in antisense gene therapy. The composition is useful for treating or
XX preventing a respiratory, lung or malignant disease or condition, also
XX for enhancing the prophylactic or therapeutic respiratory effect of an
XX antiinflammatory steroid in a subject, for reducing or depleting levels
XX of, or reducing sensitivity to adenosine, reducing levels of adenosine
XX receptor, producing bronchodilation, increasing levels of ubiquinone or
XX lung surfactant in a subject's tissue, or treating bronchoconstriction,
XX lung inflammation, lung allergies, or a respiratory disease or condition.
XX Note: The sequence data for this patent is not represented in the printed
XX specification, but was obtained in electronic format directly from WIPO
```

```
CC at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 20 BP; 3 A; 6 C; 8 G; 3 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1269 TGAGGAGACGTGGCCAG 1285
Db 4 TGAGGACACGTGGCCTG 20

RESULT 1568
ABZ93366/c
ID ABZ93366 standard; DNA; 20 BP.
XX
AC ABZ93366;
XX
DT 17-OCT-2003 (first entry)
XX
DE Human oligonucleotide sequence.
XX
KW Human; antisense; lung dysfunction; nasal airway dysfunction;
KW antiinflammatory steroid; ubiqunone; antiinflammatory; antiallergic;
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
KW lung inflammation; respiratory disease; ds.
XX
OS Homo sapiens.
XX
PN WO200285308-A2.
XX
PD 31-OCT-2002.
XX
PF 23-APR-2002; 2002WO-US013135.
XX
PR 24-APR-2001; 2001US-0286137P.
XX
PA (EPIG-) EPIGENESIS PHARM INC.
XX
PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX
DR WPI; 2003-229219/22.
XX
PT Pharmaceutical composition for treating ailments associated with impaired
PT respiration, has oligo(s) antisense to specific gene(s) or its
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
PT ubiqunone.
XX
PS Disclosure; SEQ ID NO 8608; 872pp; English.
XX
CC The invention relates to a novel pharmaceutical composition, which has a
CC first active agent comprising an oligonucleotide antisense to the
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
CC junctions of genes encoding a polypeptide associated with lung and/or
CC nasal airway dysfunction and a second active agent comprising an
CC antiinflammatory steroid and ubiqunone. A composition of the invention
CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
CC immunosuppressive, and cytostatic activity. The composition may have a
CC use in antisense gene therapy. The composition is useful for treating or
CC preventing a respiratory, lung or malignant disease or condition, also
CC for enhancing the prophylactic or therapeutic respiratory effect of an
CC antiinflammatory steroid in a subject, for reducing or depleting levels
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
CC receptor, producing bronchodilation, increasing levels of ubiqunone or
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
CC lung inflammation, lung allergies, or a respiratory disease or condition.
CC Note: The sequence data for this patent is not represented in the printed
CC specification, but was obtained in electronic format directly from WIPO
```

```
CC at ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 20 BP; 2 A; 3 C; 9 G; 6 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 548 ACAAGCCCTCAGCGC 564
Db 18 ACAAGCCCTCAACGC 2

RESULT 1569
ABZ85750/c
ID ABZ85750 standard; DNA; 20 BP.
XX
AC ABZ85750;
XX
DT 17-OCT-2003 (first entry)
XX
DE Human oligonucleotide sequence.
XX
KW Human; antisense; lung dysfunction; nasal airway dysfunction;
KW antiinflammatory steroid; ubiqunone; antiinflammatory; antiallergic;
KW antiasthmatic; hypotensive; immunosuppressive; cytostatic; gene therapy;
KW antisense gene therapy; respiratory; lung; adenosine sensitivity;
KW adenosine receptor; bronchodilation; bronchoconstriction; lung allergy;
KW lung inflammation; respiratory disease; ds.
XX
OS Homo sapiens.
XX
PN WO200285308-A2.
XX
PD 31-OCT-2002.
XX
PF 23-APR-2002; 2002WO-US013135.
XX
PR 24-APR-2001; 2001US-0286137P.
XX
PA (EPIG-) EPIGENESIS PHARM INC.
XX
PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;
PI Miller S, Tang L, Shahabuddin S;
XX
DR WPI; 2003-229219/22.
XX
PT Pharmaceutical composition for treating ailments associated with impaired
PT respiration, has oligo(s) antisense to specific gene(s) or its
PT corresponding RNAs, and glucocorticoid or non-glucocorticoid steroid or
PT ubiqunone.
XX
PS Claim 15; SEQ ID NO 992; 872pp; English.
XX
CC The invention relates to a novel pharmaceutical composition, which has a
CC first active agent comprising an oligonucleotide antisense to the
CC initiation codon, coding region, 5' or 3' end genomic flanking regions,
CC 5' and 3' intron-exon junctions, or regions within 2-10 nucleotides of
CC junctions of genes encoding a polypeptide associated with lung and/or
CC nasal airway dysfunction and a second active agent comprising an
CC antiinflammatory steroid and ubiqunone. A composition of the invention
CC has antiinflammatory, antiallergic, antiasthmatic, hypotensive,
CC immunosuppressive, and cytostatic activity. The composition may have a
CC use in antisense gene therapy. The composition is useful for treating or
CC preventing a respiratory, lung or malignant disease or condition, also
CC for enhancing the prophylactic or therapeutic respiratory effect of an
CC antiinflammatory steroid in a subject, for reducing or depleting levels
CC of, or reducing sensitivity to adenosine, reducing levels of adenosine
CC receptor, producing bronchodilation, increasing levels of ubiqunone or
CC lung surfactant in a subject's tissue, or treating bronchoconstriction,
CC lung inflammation, lung allergies, or a respiratory disease or condition.
CC Note: The sequence data for this patent is not represented in the printed
CC specification, but was obtained in electronic format directly from WIPO
```



```
SQ Sequence 20 BP; 1 A; 10 C; 1 G; 8 T; 0 U; 0 Other;
Query Match      0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 919 TTCCTGTTCCAGCTCT 935
    ||||| ||||| ||
Db 4 TTCCTCTTCCAGCTTCT 20

RESULT 1572
ABX33976
ID ABX33976 standard; DNA; 20 BP.
AC ABX33976;
XX
DT 10-FEB-2003 (first entry)
XX
DE Human interleukin 12 p40 subunit antisense oligonucleotide ISIS #139149.
XX
KW Human; ss; antisense; interleukin 12 p40 subunit; antibacterial;
KW antiinflammatory; cytostatic; infection; inflammation; tumour.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= a
FT /mod_base= OTHER
FT /note= "All cytosines are 5-methylcytidines and the
FT nucleotides are linked via a phosphorothioate backbone"
FT modified_base 1..5
FT /tag= b
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"
XX
FN US6448081-B1.
XX
PD 10-SEP-2002.
XX
PP 07-MAY-2001; 2001US-00851062.
XX
PR 07-MAY-2001; 2001US-00851062.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Baker BF, Freier SM;
XX
XX WPI; 2003-074100/07.
XX
PT New antisense chimeric oligonucleotide, useful for modulating the
PT expression of human Interleukin 12 p40 subunit, in treating or preventing
PT disease states in humans and animals, and as research reagents and
PT diagnostics.
XX
PS Example 15; Col 45; 42pp; English.
XX
CC The invention relates to an antisense compound 20-50 nucleobases in
CC length targeted to a start codon region, coding region, a stop codon
CC region or a 3'-untranslated region of a nucleic acid molecule encoding
CC human interleukin 12 p40 subunit. The compound specifically hybridises
CC with one of the regions and inhibits the expression of human Interleukin
CC 12 p40 subunit. The new compound is useful for inhibiting the expression
CC of human Interleukin 12 p40 subunit in cells or tissues and comprises
CC contacting the cells or tissues in vitro with the compound, so that
CC expression of the human Interleukin 12 p40 subunit is inhibited. The
CC antisense compound may also be used as research reagents and diagnostics,
CC and as treatment or prevention of disease states, e.g. to prevent or
```

```
CC delay infection, inflammation or tumour formation, in animals and humans.
CC The present sequence is an antisense oligonucleotide of the invention
XX
SQ Sequence 20 BP; 4 A; 9 C; 3 G; 4 T; 0 U; 0 Other;
Query Match      0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 480 ACTACCAGCTGACATCC 496
    ||| ||||| ||||| |||
Db 3 ACTCCAGCTGACCTCC 19

RESULT 1573
ACD42154/c
ID ACD42154 standard; DNA; 20 BP.
XX
AC ACD42154;
XX
DT 05-SEP-2003 (first entry)
XX
DE Human raf-associated antisense oligonucleotide #16.
XX
KW Antisense; C-raf; a-raf; b-raf; protein kinase; cancer; ss;
KW signal transduction; cell proliferation; lung carcinoma; cytostatic;
KW antisense gene therapy; chemotherapeutic agent; angiogenesis;
KW hyperproliferative condition; neovascularisation; ocular angiogenesis.
XX
OS Unidentified.
XX
PN US2003032607-A1.
XX
PD 13-FEB-2003.
XX
PP 25-JAN-2002; 2002US-00057550.
XX
PR 31-MAY-1994; 94US-00250856.
PR 31-MAY-1995; 95WO-US007111.
PR 26-NOV-1996; 96US-00756806.
PR 07-JUL-1997; 97US-00888982.
PR 06-JUL-1998; 98WO-US013961.
PR 28-AUG-1998; 98US-00143214.
PR 18-FEB-2000; 2000US-00506073.
XX
PA (MONI/) MONIA B P.
XX
PI Monia BP;
XX
XX WPI; 2003-503332/47.
XX
PT Novel antisense oligonucleotide which is targeted to mRNA encoding human
PT raf and which is capable of inhibiting raf expression, useful for
PT treating or preventing hyperproliferative conditions such as cancer.
XX
PS Disclosure; Page 32; 42pp; English.
XX
CC The invention relates to an oligonucleotide 8-50 nucleotides in length
CC which is targeted to mRNA encoding human c-raf, a-raf or b-raf (raf is a
CC protein kinase playing a regulatory role in signal transduction,
CC regulating cell proliferation and has been implicated in lung carcinoma),
CC and which is capable of inhibiting raf expression. Also included is a
CC composition comprising the oligonucleotide and a pharmaceutically
CC acceptable carrier. The antisense oligonucleotide is useful for
CC inhibiting the expression of human raf in human cells or tissues, by
CC contacting the human cells or tissues with the oligo. The oligo. is also
CC useful for treating or preventing a disease or condition associated
CC with the expression of raf by administering it in combination with a
CC chemotherapeutic agent to a human or cells of the human, where the
CC expression of raf is abnormal expression, and the condition is a
CC hyperproliferative condition such as cancer, angiogenesis or
CC neovascularisation (preferably ocular angiogenesis or
CC neovascularisation). The oligo. is also useful for inhibiting
```







KW cellular proliferative disorder; breast cancer; methylation;  
KW predisposition; reverse transcriptase PCR; RT-PCR; primer; CpG island;  
KW ss; cyclin 14-3-3 sigma; human.  
XX  
XX Homo sapiens.  
XX  
XX OS  
XX  
XX US2003138783-A1.  
XX  
XX PD 24-JUL-2003.  
XX  
XX PF 28-JAN-2002; 2002US-00059579.  
XX  
XX ER 26-JAN-2001; 2001US-00771357.  
XX  
XX PA (SUKU/) SUKUMAR S.  
XX PA (EVRO/) EVRON E.  
XX PA (DOOL/) DOOLEY W C.  
XX PA (SACC/) SACCHI N.  
XX PA (DAVI/) DAVIDSON N.  
XX PA (FACK/) FACKLER M J.  
XX  
XX PI Sukumar S, Evron E, Dooley WC, Sacchi N, Davidson N, Fackler MJ;  
XX WPI; 2003-851722/79.  
XX  
XX PT Diagnosing a cellular proliferative disorder of breast tissue in a  
XX subject comprises determining the state of methylation of one or more  
XX nucleic acid isolated from the subject.  
XX  
XX PS Claim 12; SEQ ID NO 42; 59pp; English.  
XX  
XX CC The invention describes a method of diagnosing a cellular proliferative  
XX disorder of breast tissue in a subject comprising determining the state  
XX of methylation of one or more nucleic acid isolated from the state  
XX where the state of methylation of one or more nucleic acids is compared  
XX with the state of methylation of one or more nucleic acids from a subject  
XX not having the cellular proliferative disorder of breast tissue. Also  
XX described are: a method for determining a predisposition to a cellular  
XX proliferative disorder of breast tissue in a subject; a method of  
XX diagnosing a cellular proliferative disorder of breast tissue in a  
XX subject; and a kit for the detecting a cellular proliferative disorder of  
XX breast tissue in a subject. The method is useful for diagnosing a  
XX cellular proliferative disorder of breast tissue in a subject. This  
XX sequence represents a reverse transcriptase PCR primer used in the  
XX analysis of the methylation state of cyclin 14-3-3 sigma CpG islands in  
XX normal mammary epithelium, breast cancer cell lines and in primary  
XX mammary tumours.  
XX  
XX SQ Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03; Mismatches 0; Indels 0; Gaps 0;  
Matches 15; Conservative 0;  
Qy 843 TGAGTACTGGACAAAGG 859  
Db 18 TGAGTACCGGAGGAGG 2  
RESULT 1576  
ABD30662  
ID ABD30662 standard; DNA; 20 BP.  
XX  
XX AC ABD30662;  
XX  
XX DT 29-JUL-2004 (first entry)  
XX  
XX DE Human IL5-R derived oligonucleotide SEQ ID 12873.  
XX  
XX KW Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
KW surfactant depletion; antiasthmatic; antiinflammatory; antiasthmatic;  
KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;

KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
KW pulmonary transplantation rejection; ss; primer.  
XX  
XX OS Homo sapiens.  
XX  
XX PN WO200285309-A2.  
XX  
XX PD 31-OCT-2002.  
XX  
XX PF 23-APR-2002; 2002WO-US013143.  
XX  
XX PR 24-APR-2001; 2001US-0286036P.  
XX  
XX PA (EPIG-) EPIGENESIS PHARM INC.  
XX  
XX PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
XX PI Miller S, Tang L, Shahabuddin S;  
XX WPI; 2003-093058/08.  
XX  
XX PT Pharmaceutical composition for treating asthma, has antisense  
XX oligonucleotide containing less percentage of adenosine, targeted to  
XX nucleic acids associated with lung airway or lung dysfunction, and  
XX bronchodilating agent.  
XX  
XX PS Claim 15; SEQ ID NO 12873; 763pp; English.  
XX  
XX CC This invention describes a novel composition (a) a first active agent,  
XX comprising oligonucleotides, effective for alleviating  
XX bronchoconstriction, respiratory tract inflammation, allergies and  
XX reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
XX surfactant depletion or hyposecretion, when administered to a mammal. The  
XX oligonucleotides are derived from a gene encoding or regulating  
XX expression of a target polypeptide associated with lung airway or lung  
XX dysfunction or cancer and can be anti-sense to the corresponding mRNA.  
XX The invention also describes a kit, that comprises: (a) a delivery  
XX device, in separate containers, (b) the oligonucleotides, (c)  
XX instructions for adding a carrier and for use of the kit. The composition  
XX of the invention has antiasthmatic, antiinflammatory, antiasthmatic,  
XX analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
XX beta-adrenergic agonist. The composition is useful for preventing or  
XX treating a respiratory, lung or malignant disease. The administered  
XX composition comprises oligo and is administered to reduce the production  
XX or availability, or to increase the degradation of the target mRNA or to  
XX reduce the amount of target polypeptide present in the lungs. The  
XX pulmonary obstruction, and/or bronchoconstriction and/or lung  
XX inflammation, allergies and/or surfactant hypoproduction are associated  
XX with a disease or condition such as pulmonary vasoconstriction,  
XX inflammation, allergies, asthma, impeded respiration, respiratory  
XX distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
XX hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
XX transplantation rejection, pulmonary infections, bronchitis or cancer.  
XX The reduced adenosine content of the anti-sense oligos corresponding to  
XX thymidines present in the target RNA serves to prevent the breakdown of  
XX the oligonucleotides into products that free adenosine into the system  
XX e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
XX prevent any unwanted effects due to it  
XX  
XX SQ Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
Qy 1444 ATGAACATCCATCTT 1460  
Db 3 ATGAACATCCATCTT 19  
RESULT 1577  
ABD29596/c



CC with a disease or condition such as pulmonary vasoconstriction,  
 CC inflammation, allergies, asthma, impeded respiration, respiratory  
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 CC The reduced adenosine content of the anti-sense oligos corresponding to  
 CC thymidines present in the target RNA serves to prevent the breakdown of  
 CC the oligonucleotides into products that free adenosine into the system  
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 CC prevent any unwanted effects due to it  
 XX  
 SQ Sequence 20 BP; 6 A; 7 C; 2 G; 5 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 212 AGATAGGCGCTGATGAG 228  
 Db ||||| ||||| ||||| |||||  
 17 AGATGGCGCTGTATGAG 1  
 RESULT 1579  
 ABD22500/c  
 ID ABD22500 standard; DNA; 20 BP.  
 XX  
 AC ABD22500;  
 XX  
 XX 29-JUL-2004 (first entry)  
 DT  
 XX Human cathepsin C-derived oligo SEQ ID 1512.  
 DE  
 XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 KW pulmonary transplantation rejection; ss; primer.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200285309-A2.  
 XX  
 XX 31-OCT-2002.  
 XX  
 XX 23-APR-2002; 2002WO-US013143.  
 XX  
 XX 24-APR-2001; 2001US-0286036P.  
 XX  
 XX (EPIG-) EPIGENESIS PHARM INC.  
 XX  
 PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX  
 XX WPI; 2003-093058/08.  
 XX  
 XX Claim 15; SEQ ID NO 1512; 763pp; English.  
 XX  
 CC This invention describes a novel composition (a) a first active agent,  
 CC comprising oligonucleotides, effective for alleviating  
 CC bronchoconstriction, respiratory tract inflammation, allergies and  
 CC reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,  
 CC surfactant depletion or hyposecretion, when administered to a mammal. The  
 CC oligonucleotides are derived from a gene encoding or regulating  
 CC expression of a target polypeptide associated with lung airway or lung  
 CC dysfunction or cancer and can be anti-sense to the corresponding mRNA.

CC The invention also describes a kit, that comprises: (a) a delivery  
 CC device, in separate containers, (b) the oligonucleotides, (c)  
 CC instructions for adding a carrier and for use of the kit. The composition  
 CC of the invention has anti-allergic, anti-inflammatory, antiasthmatic,  
 CC analgesic, hypotensive, immunosuppressive and cytostatic activity, is a  
 CC beta-adrenergic agonist. The composition is useful for preventing or  
 CC treating a respiratory, lung or malignant disease. The administered  
 CC composition comprises oligo and is administered to reduce the production  
 CC or availability, or to increase the degradation of the target mRNA or to  
 CC reduce the amount of target polypeptide present in the lungs. The  
 CC pulmonary obstruction, and/or bronchoconstriction and/or lung  
 CC inflammation, allergies and/or surfactant hypoproduction are associated  
 CC with a disease or condition such as pulmonary vasoconstriction,  
 CC inflammation, allergies, asthma, impeded respiration, respiratory  
 CC distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary  
 CC hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary  
 CC transplantation rejection, pulmonary infections, bronchitis or cancer.  
 CC The reduced adenosine content of the anti-sense oligos corresponding to  
 CC thymidines present in the target RNA serves to prevent the breakdown of  
 CC the oligonucleotides into products that free adenosine into the system  
 CC e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to  
 CC prevent any unwanted effects due to it  
 XX  
 SQ Sequence 20 BP; 4 A; 4 C; 5 G; 7 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 58 TGACTGCTGAACCCAG 74  
 Db ||||| ||||| ||||| |||||  
 19 TGACTGCTGAATACAG 3  
 RESULT 1580  
 ABD27560  
 ID ABD27560 standard; DNA; 20 BP.  
 XX  
 AC ABD27560;  
 XX  
 XX 29-JUL-2004 (first entry)  
 DT  
 XX AA504431-derived oligonucleotide SEQ ID 6572.  
 DE  
 XX Human; antisense; bronchoconstriction; allergy; hyposecretion; pain;  
 KW respiratory tract inflammation; adenosine sensitivity; lung; cancer;  
 KW surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;  
 KW analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;  
 KW beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;  
 KW respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;  
 KW emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;  
 KW pulmonary transplantation rejection; ss; primer.  
 XX  
 OS Homo sapiens.  
 XX  
 XX WO200285309-A2.  
 XX  
 XX 31-OCT-2002.  
 XX  
 XX 23-APR-2002; 2002WO-US013143.  
 XX  
 XX 24-APR-2001; 2001US-0286036P.  
 XX  
 XX (EPIG-) EPIGENESIS PHARM INC.  
 XX  
 PI Nyce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;  
 PI Miller S, Tang L, Shahabuddin S;  
 XX  
 XX WPI; 2003-093058/08.  
 XX  
 XX Pharmaceutical composition for treating asthma, has antisense  
 XX oligonucleotide containing less percentage of adenosine, targeted to  
 XX nucleic acids associated with lung airway or lung dysfunction, and

PT bronchodilating agent.

PS Claim 15; SEQ ID NO 6572; 763bp; English.

XX This invention describes a novel composition (a) a first active agent,

XX comprising oligonucleotides, effective for alleviating

XX bronchoconstriction, respiratory tract inflammation, allergies and

XX reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,

XX surfactant depletion or hyposcretion, when administered to a mammal. The

XX oligonucleotides are derived from a gene encoding or regulating

XX expression of a target polypeptide associated with lung airway or lung

XX dysfunction or cancer and can be anti-sense to the corresponding mRNA.

XX The invention also describes a kit, that comprises: (a) a delivery

XX device, in separate containers, (b) the oligonucleotides, (c)

XX instructions for adding a carrier and for use of the kit. The composition

XX of the invention has anti-allergic, anti-inflammatory, antiasthmatic,

XX analgesic, hypotensive, immunosuppressive and cytostatic activity, is a

XX beta-adrenergic agonist. The composition is useful for preventing or

XX treating a respiratory, lung or malignant disease. The administered

XX composition comprises oligo and is administered to reduce the production

XX of availability, or to increase the degradation of the target mRNA or to

XX reduce the amount of target polypeptide present in the lungs. The

XX pulmonary obstruction, and/or bronchoconstriction and/or lung

XX inflammation, allergies and/or surfactant hypoproduction are associated

XX with a disease or condition such as pulmonary vasoconstriction,

XX inflammation, allergies, asthma, impeded respiration, respiratory

XX distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary

XX hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary

XX transplantation rejection, pulmonary infections, bronchitis or cancer.

XX The reduced adenosine content of the anti-sense oligos corresponding to

XX thymidines present in the target RNA serves to prevent the breakdown of

XX the oligonucleotides into products that free adenosine into the system

XX e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to

XX prevent any unwanted effects due to it

XX Sequence 20 BP; 3 A; 6 C; 8 G; 3 T; 0 U; 0 Other;

SQ

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1269 TGAGGAGACGTGGCCAG 1285

DB 4 TGAGGACACGTGGCCCTG 20

RESULT 1581

ABD25640/C

ID ABD25640 standard; DNA; 20 BP.

XX ABD25640;

XX 29-JUL-2004 (first entry)

XX A1024215-derived oligonucleotide SEQ ID 4652.

XX Human, antisense; bronchoconstriction; allergy; hyposcretion; pain;

XX respiratory tract inflammation; adenosine sensitivity; lung; cancer;

XX surfactant depletion; anti-allergic; anti-inflammatory; antiasthmatic;

XX analgesic; hypotensive; immunosuppressive; cytostatic; cystic fibrosis;

XX beta-adrenergic agonist; respiratory disease; pulmonary vasoconstriction;

XX respiratory distress syndrome; allergic rhinitis; pulmonary hypertension;

XX emphysema; chronic obstructive pulmonary disease; cancer; bronchitis;

XX pulmonary transplantation rejection; ss; primer.

XX Homo sapiens.

XX WO200285309-A2.

XX 31-OCT-2002.

XX 23-APR-2002; 2002WO-US013143.

XX

PR 24-APR-2001; 2001US-0286036P.

XX (EPIG-) EPIGENESIS PHARM INC.

XX Myce JW, Li Y, Sandrasagra A, Katz E, Pabalan J, Aguilar D;

PI Miller S, Tang L, Shahabuddin S;

XX WPI; 2003-093058/08.

XX Pharmaceutical composition for treating asthma, has antisense

XX oligonucleotide containing less percentage of adenosine, targeted to

XX nucleic acids associated with lung airway or lung dysfunction, and

XX bronchodilating agent.

XX Claim 15; SEQ ID NO 4652; 763bp; English.

XX This invention describes a novel composition (a) a first active agent,

XX comprising oligonucleotides, effective for alleviating

XX bronchoconstriction, respiratory tract inflammation, allergies and

XX reducing adenosine sensitivity, levels of adenosine (A) or (A) receptors,

XX surfactant depletion or hyposcretion, when administered to a mammal. The

XX oligonucleotides are derived from a gene encoding or regulating

XX expression of a target polypeptide associated with lung airway or lung

XX dysfunction or cancer and can be anti-sense to the corresponding mRNA.

XX The invention also describes a kit, that comprises: (a) a delivery

XX device, in separate containers, (b) the oligonucleotides, (c)

XX instructions for adding a carrier and for use of the kit. The composition

XX of the invention has anti-allergic, anti-inflammatory, antiasthmatic,

XX analgesic, hypotensive, immunosuppressive and cytostatic activity, is a

XX beta-adrenergic agonist. The composition is useful for preventing or

XX treating a respiratory, lung or malignant disease. The administered

XX composition comprises oligo and is administered to reduce the production

XX of availability, or to increase the degradation of the target mRNA or to

XX reduce the amount of target polypeptide present in the lungs. The

XX pulmonary obstruction, and/or bronchoconstriction and/or lung

XX inflammation, allergies and/or surfactant hypoproduction are associated

XX with a disease or condition such as pulmonary vasoconstriction,

XX inflammation, allergies, asthma, impeded respiration, respiratory

XX distress syndrome, pain, cystic fibrosis, allergic rhinitis, pulmonary

XX hypertension, emphysema, chronic obstructive pulmonary disease, pulmonary

XX transplantation rejection, pulmonary infections, bronchitis or cancer.

XX The reduced adenosine content of the anti-sense oligos corresponding to

XX thymidines present in the target RNA serves to prevent the breakdown of

XX the oligonucleotides into products that free adenosine into the system

XX e.g., lung, brain, heart, kidney, etc, tissue environment and thereby, to

XX prevent any unwanted effects due to it

XX Sequence 20 BP; 6 A; 6 C; 2 G; 6 T; 0 U; 0 Other;

SQ

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 343 TTGAAGATGGGTCTGA 359

DB 20 TTGAAGATGAAGTCTGA 4

RESULT 1582

AD084907/C

ID AD084907 standard; DNA; 20 BP.

XX AD084907;

XX 29-JUL-2004 (first entry)

XX Human BRCA 1 and BRCA 2 mutation-related oligonucleotide probe SeqID12.

XX mutation; BRCA 1; BRCA 2; diagnosis; breast cancer; ovarian cancer;

XX detection; predisposition; susceptibility; cancer; probe; ss; human.

XX Homo sapiens.

XX

PN KR2003017894-A.  
XX 04-MAR-2003.  
XX 25-AUG-2001; 2001KR-00051510.  
XX 25-AUG-2001; 2001KR-00051510.  
XX (MYDN-) MYDNA CO LTD.  
PI Cho DY, Cho HM, Kang CS, Kim JG, Oh BG, Song GH, Yoon GS;  
XX WPI; 2003-501054/47.  
XX Mutations of BRCA 1 and BRCA 2 useful for diagnosis of breast and ovarian  
PT cancers, and detection method of predisposition and susceptibility of the  
PT cancers using the same.  
XX Claim 3; SEQ ID NO 12; 1pp; Korean.  
XX This invention relates to novel mutations of BRCA 1 and BRCA 2 genes  
CC useful for the diagnosis of breast and ovarian cancers. In addition, the  
CC invention also relates to a detection method of predisposition and  
CC susceptibility of the cancers using the same. The present sequence is  
CC that of an oligonucleotide probe which may be used for detection of the  
CC human BRCA mutations of the invention.  
XX Sequence 20 BP; 3 A; 6 C; 4 G; 7 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 206 CTGAGCAGATAGCCCTG 222  
DB 19 CTGAGCAGATAGCCCTG 3  
RESULT 1583  
ADP75344  
ID ADP75344 standard; DNA; 20 BP.  
XX ADP75344;  
AC ADP75344;  
XX 12-AUG-2004 (first entry)  
XX Human endophilin 2 gene exon F reverse sequencing primer.  
XX Human; ss; primer; ADAM19; Endophilin 1; Neuroregulin 2; NRG2; ADAMTS2;  
KW a disintegrin and metalloprotease; neuroregulin 2; SNP;  
KW single nucleotide polymorphism;  
KW a disintegrin and metalloprotease with thrombospondin type 1 motif 2;  
KW asthma; atopy; obesity; inflammatory bowel disease; respiratory disorder.  
XX Homo sapiens.  
XX WO2003031594-A2.  
XX 17-APR-2003.  
XX 11-OCT-2002; 2002WO-US032700.  
XX 11-OCT-2001; 2001US-0328424P.  
XX (GENO-) GENOME THERAPEUTICS CORP.  
XX Keith T, Little RD, Van Berdewegh P, Dupuis J, Del Mastro RG;  
PI Allen K;  
XX WPI; 2003-381712/36.  
XX New isolated nucleic acid or alternate splice variant, useful for  
PT diagnosing and treating a disintegrin and metalloprotease (ADAM) or

PT interactor gene-associated disorder, e.g. asthma, atopy, obesity or  
XX inflammatory bowel disease.  
XX Claim 2; Page 127; 338pp; English.  
XX The invention relates to an isolated nucleic acid or alternate splice  
CC variant comprising a nucleotide sequence containing at least one of the  
CC single nucleotide polymorphisms given in the specification, a nucleotide  
CC sequence having at least 15 contiguous nucleotides of them, or  
CC complements of them. The genes are ADAM19 (a disintegrin and  
CC metalloprotease 19, also known as gene 845), NRG2 (neuroregulin 2, also  
CC known as gene 847), endophilin 1 (also known as gene 874), endophilin 2  
CC (also known as gene 803) and ADAMTS2 (a disintegrin and metalloprotease  
CC with thrombospondin type 1 motif 2, also known as gene 962). Also included  
CC are a vector comprising the isolated nucleic acid (or alternate splice  
CC variant), a host cell containing the vector, an isolated polypeptide  
CC encoded by the novel nucleic acid (or alternate splice variant), an  
CC antibody or antibody fragment that binds to the polypeptide, a kit  
CC pharmaceutical compositions (comprising the nucleic acid or alternate  
CC splice variant, vector, polypeptide or antibody, and a carrier,  
CC excipient or diluent), a kit for detecting a disintegrin and  
CC metalloprotease (ADAM) gene nucleotide sequence (comprising the isolated  
CC nucleic acid or alternate splice variant, antibody or antibody fragment,  
CC and at least one component to detect the hybridisation of the variant or  
CC the binding of the antibody to an ADAM gene amino acid sequence), a kit  
CC for detecting an interactor gene amino acid sequence (comprising the  
CC antibody or antibody fragment, and at least one component to detect the  
CC binding of the antibody to the interactor gene amino acid sequence),  
CC diagnosing an ADAM or interactor gene-associated disorder or a  
CC respiratory disorder in a human subject, determining an ADAM or  
CC interactor gene pharmacogenetic profile in a human subject, identifying  
CC an orthologue of a human ADAM or interactor gene, treating an ADAM or  
CC interactor gene-associated disorder (or a respiratory disorder) by  
CC administering the pharmaceutical composition, a transgenic mouse (whose  
CC genome comprises an introduced null mutation in an endogenous gene that  
CC is orthologous to a human ADAM gene), making a homozygous transgenic  
CC knockout mouse, forming a crystal of the isolated polypeptide, a cell  
CC line comprising the isolated nucleic acid or alternate splice variant, a  
CC biochip comprising the isolated nucleic acid or alternate splice variant,  
CC an isolated nucleic acid probe or primer comprising at least 8 contiguous  
CC nucleotides of the nucleic acid, an isolated antisense nucleic acid,  
CC identifying an ADAM or interactor gene ligand and an isolated nucleic  
CC acid variant of Gene 803, 845, 847, 874 or 962. The nucleic acid or  
CC alternate splice variants, methods, kits and antibody/antibody fragment  
CC are useful for diagnosing and treating an ADAM or interactor gene-  
CC associated disorder, e.g. asthma, atopy, obesity or inflammatory bowel  
CC disease. The present sequence is a primer used to sequence the regions  
CC surrounding polymorphisms in the above genes.  
XX Sequence 20 BP; 4 A; 8 C; 2 G; 6 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1681 AACTACATCTTCCTGC 1697  
DB 2 AATGACATCTTCCTGC 18

RESULT 1584  
ADE64291  
ID ADE64291 standard; DNA; 20 BP.  
XX ADE64291;  
AC ADE64291;  
XX 29-JAN-2004 (first entry)  
XX C. tropicalis CYP52A5A/B QC-RT-PCR primer #1.  
XX Yeast; ss; PCR; primer; NADPH reductase; CPR; cytochrome P450; CYP;  
KW omega-hydroxylase; dicarboxylic acid; QC-RT PCR;  
KW Quantitative competitive reverse transcriptase PCR.

XX OS Candida tropicalis.  
 XX PN US2003068800-A1.  
 XX PD 10-APR-2003.  
 XX PF 03-MAY-2002; 2002US-00138905.  
 XX PR 01-MAY-1998; 98US-0083798P.  
 XX PR 05-OCT-1998; 98US-0103099P.  
 XX PR 10-MAR-1999; 99US-0123555P.  
 XX PR 30-APR-1999; 99US-00302620.  
 XX PR 12-OCT-2001; 2001US-00976800.  
 XX (WILS/) WILSON C R.  
 XX PA (CRAFT/) CRAFT D L.  
 XX PA (EIRL/) EIRICH L D.  
 XX PA (ESHO/) ESHOO M.  
 XX PA (MADD/) MADDURI K M.  
 XX PA (CORN/) CORNETT C A.  
 XX PA (BREN/) BRENNER A A.  
 XX PA (TANG/) TANG M.  
 XX PA (LOPE/) LOPEZ J C.  
 XX PA (GLEE/) GLEESON M.  
 XX PI Wilson CR, Craft DL, Eirich LD, Eshoo M, Madduri KM, Cornett CA;  
 XX PI Brenner AA, Tang M, Loper JC, Gleeson M;  
 XX WPI; 2004-020205/02.  
 XX PT Novel isolated CPRA, CPRB, CYP52A1A, CYP52A2A, CYP52A2B, CYP52A3A,  
 XX PT CYP52A3B, CYP52A5A, CYP52A5B, CYP52A8A, CYP52A8B or CYP52D4A protein,  
 XX PT useful for increasing production of dicarboxylic acid in cells.  
 XX Example 11; SEQ ID NO 47; 195pp; English.  
 XX PS The invention relates to an isolated CPRA, CPRB, CYP52A1A, CYP52A2A,  
 XX CC CYP52A2B, CYP52A3A, CYP52A5B, CYP52A5A, CYP52A8A, CYP52A8B or  
 XX CC CYP52D4A protein (CYP - cytochrome P450, CYP - NADPH reductase) of the  
 XX CC Candida tropicalis omega-hydroxylase complex. Also included are the  
 XX CC nucleic acids encoding the CYP/CPR proteins (including their coding  
 XX CC regions), a vector comprising the nucleotide acid, a host cell  
 XX CC transfected or transformed with the vector, discriminating members of a  
 XX CC gene family by quantifying the amount of target mRNA in a sample and  
 XX CC increasing production of a dicarboxylic acid (comprising: providing a  
 XX CC host cell having a naturally occurring CYP/CPR protein and culturing the  
 XX CC host cell in media containing an organic substrate which upregulates the  
 XX CC genes, to effect increased production of dicarboxylic acid). The CYP and  
 XX CC CPR proteins, present in higher levels than normal is useful for  
 XX CC increasing production of dicarboxylic acids. The present sequence is a  
 XX CC Quantitative competitive reverse transcriptase PCR (QC-Rt PCR) primer  
 XX CC used to assay the levels of CYP/CPR mRNA in RNA samples.  
 XX SQ Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 1010 AGAGGGGAGAGCTCAAG 1026  
 Db 2 AGAGGGGAGAGCTCAAG 18  
 RESULT 1585  
 ADG86735/C  
 ID ADG86739 standard; DNA; 20 BP.  
 AC ADG86739;  
 XX 11-MAR-2004 (first entry)  
 DT XX

DE Human APP-cleaving enzyme target region ISIS 140495.  
 XX ss; human; beta-site amyloid precursor protein; APP-cleaving enzyme;  
 KW amyloid deposition; neurodegeneration; Alzheimer's disease; infection;  
 KW inflammation; tumour.  
 XX OS Homo sapiens.  
 XX PN US2003224512-A1.  
 XX PD 04-DEC-2003.  
 XX PF 31-MAY-2002; 2002US-00159942.  
 XX PR 31-MAY-2002; 2002US-00159942.  
 XX (ISIS-) ISIS PHARM INC.  
 XX PI Dobie KW;  
 XX WPI; 2004-051909/05.  
 XX New antisense compound targeted to a nucleic acid molecule encoding a  
 PT beta-site amyloid precursor protein (APP)-cleaving enzyme, useful for  
 PT treating diseases associated with beta-site APP-cleaving enzyme, e.g.  
 PT neurodegeneration.  
 XX Example 15; SEQ ID NO 122; 58pp; English.  
 XX The invention relates to a compound targeted to a nucleic acid molecule  
 CC encoding a beta-site amyloid precursor protein (APP)-cleaving enzyme. The  
 CC antisense oligonucleotides and compounds are useful for inhibiting the  
 CC expression of beta-site amyloid precursor protein (APP)-cleaving enzyme,  
 CC modulating amyloid deposition in neurons, altering the expression of a  
 CC splice variant of beta-site APP-cleaving enzyme, and for treating APP-  
 CC diseases or conditions associated with expression of beta-site APP-  
 CC cleaving enzyme e.g. neurodegeneration or Alzheimer's disease. The  
 CC antisense compounds are also useful as research reagents and kits, or in  
 CC diagnostic, therapeutic and prophylaxis applications, e.g. to prevent or  
 CC delay infection, inflammation or tumour formation. The present sequence  
 CC represents a human APP-cleaving enzyme target region.  
 XX SQ Sequence 20 BP; 4 A; 8 C; 4 G; 4 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 Qy 873 CCTGGATGACTGTGGGA 889  
 Db 17 CGTGGATGACTGTGAGA 1  
 RESULT 1586  
 ADG86683  
 ID ADG86683 standard; DNA; 20 BP.  
 XX AC ADG86683;  
 XX 11-MAR-2004 (first entry)  
 DT XX  
 DE Human APP-cleaving enzyme antisense oligonucleotide ISIS 223841.  
 XX ss; human; beta-site amyloid precursor protein; APP-cleaving enzyme;  
 KW amyloid deposition; neurodegeneration; Alzheimer's disease; infection;  
 KW inflammation; tumour; antisense.  
 XX OS Synthetic.  
 XX OS Homo sapiens.  
 XX PN US2003224512-A1.  
 XX PD 04-DEC-2003.

```

XX 31-MAY-2002; 2002US-00159942.
XX
XX 31-MAY-2002; 2002US-00159942.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Dobie KW;
XX
XX WPI; 2004-051909/05.
XX
XX New antisense compound targeted to a nucleic acid molecule encoding a
XX beta-site amyloid precursor protein (APP)-cleaving enzyme, useful for
XX treating diseases associated with beta-site APP-cleaving enzyme, e.g.
XX neurodegeneration.
XX
XX Example 15; SEQ ID NO 66; 58pp; English.
XX
XX The invention relates to a compound targeted to a nucleic acid molecule
XX encoding a beta-site amyloid precursor protein (APP)-cleaving enzyme. The
XX antisense oligonucleotides and compounds are useful for inhibiting the
XX expression of beta-site amyloid precursor protein (APP)-cleaving enzyme,
XX modulating amyloid deposition in neurons, altering the expression of a
XX splice variant of beta-site APP-cleaving enzyme, and for treating
XX diseases or conditions associated with expression of beta-site APP-
XX cleaving enzyme e.g. neurodegeneration or Alzheimer's disease. The
XX antisense compounds are also useful as research reagents and kits, or in
XX diagnostic, therapeutic and prophylaxis applications, e.g. to prevent or
XX delay infection, inflammation or tumour formation. The present sequence
XX represents a human APP-cleaving enzyme antisense oligonucleotide.
XX
XX Sequence 20 BP; 4 A; 4 C; 8 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 20;
XX Best Local Similarity 88.2%; Pred. No. 1e+03;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 873 CTGTGATGACTGTGGGA 889
XX Db 4 CGTGTGATGACTGTGAGA 20
XX
XX RESULT 1587
XX ADH27256
XX ID ADH27256 standard; DNA; 20 BP.
XX AC
XX ADH27256;
XX
XX DT 11-MAR-2004 (first entry)
XX
XX DE Ferritin related oligonucleotide Bin#3 structure 7.
XX KW detection; conserved structure; RNA structural element; fitness; ss.
XX KW Synthetic.
XX OS
XX WO2003104478-A2.
XX PN
XX 18-DEC-2003.
XX
XX PF 10-JUN-2003; 2003WO-US018573.
XX
XX PR 10-JUN-2002; 2002US-0387342P.
XX
XX PA (ISIS-) ISIS PHARM INC.
XX
XX PI Sampath R, Becker DJ, Griffey RH, Fogel GB, Porto VW;
XX WPI; 2004-062371/06.
XX
XX Detecting a conserved structure in an RNA sequence by generating an
XX offspring group from the parent group and selecting at least one group
XX from the parent and offspring groups with the highest fitness.
XX
XX Example 1; Fig 11; 52pp; English.
XX
XX The present invention describes a method for detecting a conserved
XX structure in an RNA sequence. The method comprises: (a) placing 2
XX structures from RNA sequences generated for 2 RNA sequences from 2 organisms
XX into a parent group; (b) generating an offspring group from the parent
XX group; (c) determining fitness of the parent and offspring groups; (d)
XX comparing the fitness of the parent and offspring groups; and (e)
XX selecting at least one group from the parent and offspring groups with
XX the highest fitness, where the conserved structure in the RNA is present
XX within the at least one group. The method is useful for detecting a
XX conserved structure in an RNA sequence. The present sequence is used in
XX the exemplification of the present invention.
XX
XX Sequence 20 BP; 4 A; 6 C; 8 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 20;
XX Best Local Similarity 88.2%; Pred. No. 1e+03;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1223 TGGAGGAAACAGCTACAC 1239
XX Db 2 TGGAGGAGCAGCTCCAC 18
XX
XX RESULT 1588
XX ADG72117/c
XX ID ADG72117 standard; DNA; 20 BP.
XX AC
XX ADG72117;
XX
XX DT 11-MAR-2004 (first entry)
XX
XX DE Mouse SREBP-1 antisense oligonucleotide ISIS 219655.
XX
XX KW Sterol regulatory element-binding protein-1; SREBP-1; ss; mouse;
XX antisense gene therapy;
XX KW sterol regulatory element-binding transcription factor; SREBP;
XX metabolic disorder; diabetes; cardiovascular disorder; atherosclerosis;
XX hyperlipidaemia.
XX
XX OS Mus musculus.
XX
XX FH Key Location/Qualifiers
XX modified_base 1..20
XX FT /*tag= b
XX FT /mod_base= OTHER
XX FT /note= "Phosphorothioate linkages. All cytidines are 5-
XX modified_base 1..5
XX FT /*tag= a
XX FT /mod_base= OTHER
XX FT /note= "2'-methoxyethyl residues"
XX modified_base 16..20
XX FT /*tag= c
XX FT /mod_base= OTHER
XX FT /note= "2'-methoxyethyl residues"
XX
XX US2003224515-A1.
XX
XX PD 04-DEC-2003.
XX
XX PF 04-JUN-2002; 2002US-00161996.
XX
XX PR 04-JUN-2002; 2002US-00161996.
XX
XX PA (ISIS-) ISIS PHARM INC.
XX
XX PI Freier SM, Baker BF, Dobie KW;
XX WPI; 2004-022079/02.
XX

```



PT New compounds, particularly antisense oligonucleotides targeted to a  
PT nucleic acid encoding sterol regulatory element-binding protein-1, useful  
PT for treating diabetes, atherosclerosis or hyperlipidaemia.

XX Example 16; SEQ ID NO 112; 112pp; English.

CC The invention relates to a compound 8-80 nucleobases in length targeted  
CC to, and which specifically hybridises with a nucleic acid molecule  
CC encoding sterol regulatory element-binding protein-1 (SREBP-1, also known  
CC as sterol regulatory element-binding transcription factor, SREBF), and  
CC inhibits the expression of SREBP-1, i.e. is an antisense oligonucleotide.  
CC Also included are a compound 8-80 nucleobases in length that specifically  
CC hybridises with at least an 8-nucleobase portion of an active site on a  
CC nucleic acid molecule encoding sterol regulatory element-binding protein-1  
CC 1, a composition comprising the compound and a carrier or diluent,  
CC inhibiting the expression of sterol regulatory element-binding protein-1 is  
CC in cells or tissues (by contacting the cells or tissues with the compound  
CC so that expression of sterol regulatory element-binding protein-1 is  
CC inhibited) and treating an animal having a disease or condition  
CC associated with sterol regulatory element-binding protein-1 by  
CC administering to the animal a therapeutic or prophylactic amount of the  
CC compound so that expression of sterol regulatory element-binding protein-1  
CC is inhibited. The antisense oligonucleotide comprises at least one  
CC modified internucleoside linkage (preferably a phosphorothioate linkage),  
CC at least one modified sugar moiety (preferably 2'-O-methoxyethyl sugar  
CC moiety) or at least one modified nucleobase (preferably 5-  
CC methylcytosine). The compound, composition and methods are useful for  
CC treating a disease or condition associated with sterol regulatory element  
CC -binding protein-1, such as a metabolic disorder e.g. diabetes, or a  
CC cardiovascular disorder, e.g. atherosclerosis or hyperlipidaemia. They  
CC are also useful in research and diagnostics for modulating the expression  
CC of sterol regulatory element-binding protein-1. The present sequence is  
CC an antisense oligonucleotide targeting mouse SREBP-1.

XX Sequence 20 BP; 5 A; 8 C; 4 G; 3 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2;

QY 240 TGGCGGCGAGTGACCTG 256

DB 20 TGGTGGCGAGTGACTCTG 4

RESULT 1589

ADG72234

ID ADG72234 standard; cDNA; 20 BP.

XX AC ADG72234;

XX 11-MAR-2004 (first entry)

XX Mouse SREBP-1 target site #3.

XX Sterol regulatory element-binding protein-1; SREBP-1; ss; mouse;

XX antisense gene therapy;

XX sterol regulatory element-binding transcription factor; SREBF;

XX metabolic disorder; diabetes; cardiovascular disorder; atherosclerosis;

XX hyperlipidaemia.

XX Mus musculus.

XX US2003224515-A1.

XX 04-DEC-2003.

XX 04-JUN-2002; 2002US-00161996.

XX 04-JUN-2002; 2002US-00161996.

XX (ISIS-) ISIS PHARM INC.

XX

PI Freier SM, Baker BF, Dobie KW;

XX WPI; 2004-022079/02.

XX New compounds, particularly antisense oligonucleotides targeted to a  
PT nucleic acid encoding sterol regulatory element-binding protein-1, useful  
PT for treating diabetes, atherosclerosis or hyperlipidaemia.

XX Example 16; SEQ ID NO 229; 112pp; English.

CC The invention relates to a compound 8-80 nucleobases in length targeted  
CC to, and which specifically hybridises with a nucleic acid molecule  
CC encoding sterol regulatory element-binding protein-1 (SREBP-1, also known  
CC as sterol regulatory element-binding transcription factor, SREBF), and  
CC inhibits the expression of SREBP-1, i.e. is an antisense oligonucleotide.  
CC Also included are a compound 8-80 nucleobases in length that specifically  
CC hybridises with at least an 8-nucleobase portion of an active site on a  
CC nucleic acid molecule encoding sterol regulatory element-binding protein-1  
CC 1, a composition comprising the compound and a carrier or diluent,  
CC inhibiting the expression of sterol regulatory element-binding protein-1 is  
CC in cells or tissues (by contacting the cells or tissues with the compound  
CC so that expression of sterol regulatory element-binding protein-1 is  
CC inhibited) and treating an animal having a disease or condition  
CC associated with sterol regulatory element-binding protein-1 by  
CC administering to the animal a therapeutic or prophylactic amount of the  
CC compound so that expression of sterol regulatory element-binding protein-1  
CC is inhibited. The antisense oligonucleotide comprises at least one  
CC modified internucleoside linkage (preferably a phosphorothioate linkage),  
CC at least one modified sugar moiety (preferably 2'-O-methoxyethyl sugar  
CC moiety) or at least one modified nucleobase (preferably 5-  
CC methylcytosine). The compound, composition and methods are useful for  
CC treating a disease or condition associated with sterol regulatory element  
CC -binding protein-1, such as a metabolic disorder e.g. diabetes, or a  
CC cardiovascular disorder, e.g. atherosclerosis or hyperlipidaemia. They  
CC are also useful in research and diagnostics for modulating the expression  
CC of sterol regulatory element-binding protein-1. The present sequence is a  
CC mouse SREBP-1 target region for the antisense oligonucleotides.

XX Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2;

QY 1729 CACCTGCCACCTTGTC 1745

DB 4 CACCTGCCACCTTGTC 20

RESULT 1590

ADG72049

ID ADG72049 standard; DNA; 20 BP.

XX AC ADG72049;

XX 11-MAR-2004 (first entry)

XX Human SREBP-1 antisense oligonucleotide ISIS 220046.

XX Sterol regulatory element-binding protein-1; SREBP-1; ss; human;

XX antisense gene therapy;

XX sterol regulatory element-binding transcription factor; SREBF;

XX metabolic disorder; diabetes; cardiovascular disorder; atherosclerosis;

XX hyperlipidaemia.

XX Homo sapiens.

XX Key Location/Qualifiers

FT modified\_base 1..20

FT /tag= b

FT /mod\_base= OTHER

FT /note= "Phosphorothioate linkages. All cytidines are 5-

FT methylcytidines"



```

FT modified_base 1..5
FT /*tag= a
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl residues"
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "2'-methoxyethyl residues"
XX US2003224515-A1.
XX
XX 04-DEC-2003.
XX
XX 04-JUN-2002; 2002US-00161996.
XX
XX 04-JUN-2002; 2002US-00161996.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Freier SM, Baker BF, Dobie KW;
XX WPI; 2004-022079/02.
XX
XX New compounds, particularly antisense oligonucleotides targeted to a
XX nucleic acid encoding sterol regulatory element-binding protein-1, useful
XX for treating diabetes, atherosclerosis or hyperlipidemia.
XX
XX Example 15; SEQ ID NO 44; 112pp; English.
XX
XX The invention relates to a compound 8-80 nucleobases in length targeted
XX to, and which specifically hybridises with a nucleic acid molecule
XX encoding sterol regulatory element-binding protein-1 (SREBP-1, also known
XX as sterol regulatory element-binding transcription factor, SREBF), and
XX inhibits the expression of SREBP-1, i.e. is an antisense oligonucleotide.
XX Also included are a compound 8-80 nucleobases in length that specifically
XX hybridises with at least an 8-nucleobase portion of an active site on a
XX nucleic acid molecule encoding sterol regulatory element-binding protein-
XX 1, a composition comprising the compound and a carrier or diluent,
XX inhibiting the expression of sterol regulatory element-binding protein-1
XX in cells or tissues (by contacting the cells or tissues with the compound
XX so that expression of sterol regulatory element-binding protein-1 is
XX inhibited) and treating an animal having a disease or condition
XX associated with sterol regulatory element-binding protein-1 by
XX administering to the animal a therapeutic or prophylactic amount of the
XX compound so that expression of sterol regulatory element-binding protein-
XX 1 is inhibited. The antisense oligonucleotide comprises at least one
XX modified internucleoside linkage (preferably a phosphorothioate linkage),
XX at least one modified sugar moiety (preferably 2'-O-methoxyethyl sugar
XX moiety) or at least one modified nucleobase (preferably 5-
XX methylcytosine). The compound, composition and methods are useful for
XX treating a disease or condition associated with sterol regulatory element
XX -binding protein-1, such as a metabolic disorder e.g. diabetes, or a
XX cardiovascular disorder, e.g. atherosclerosis or hyperlipidaemia. They
XX are also useful in research and diagnostics for modulating the expression
XX of sterol regulatory element-binding protein-1. The present sequence is
XX an antisense oligonucleotide targeting human SREBP-1.
XX
SQ Sequence 20 BP; 5 A; 4 C; 7 G; 4 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 505 GAGGGCTACCTGGAGAA 521
Db 2 GAGGGCTCTCTGCAGAA 18
RESULT 1591
ADG72186/c
ID ADG72186 standard; DNA; 20 BP.
XX
AC ADG72186;

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XX
XX 11-MAR-2004 (first entry)
XX
XX Human SREBP-1 target site #23.
XX
XX Sterol regulatory element-binding protein-1; SREBP-1; ds; human;
XX antisense gene therapy;
XX sterol regulatory element-binding transcription factor; SREBF;
XX metabolic disorder; diabetes; cardiovascular disorder; atherosclerosis;
XX hyperlipidaemia.
XX
XX Homo sapiens.
XX
XX OS
XX US2003224515-A1.
XX
XX PN
XX 04-DEC-2003.
XX
XX PD
XX 04-JUN-2002; 2002US-00161996.
XX
XX PF
XX 04-JUN-2002; 2002US-00161996.
XX
XX PR
XX (ISIS-) ISIS PHARM INC.
XX
XX PA
XX Freier SM, Baker BF, Dobie KW;
XX WPI; 2004-022079/02.
XX
XX DR
XX
XX PS
XX New compounds, particularly antisense oligonucleotides targeted to a
XX nucleic acid encoding sterol regulatory element-binding protein-1, useful
XX for treating diabetes, atherosclerosis or hyperlipidemia.
XX
XX Example 16; SEQ ID NO 181; 112pp; English.
XX
XX The invention relates to a compound 8-80 nucleobases in length targeted
XX to, and which specifically hybridises with a nucleic acid molecule
XX encoding sterol regulatory element-binding protein-1 (SREBP-1, also known
XX as sterol regulatory element-binding transcription factor, SREBF), and
XX inhibits the expression of SREBP-1, i.e. is an antisense oligonucleotide.
XX Also included are a compound 8-80 nucleobases in length that specifically
XX hybridises with at least an 8-nucleobase portion of an active site on a
XX nucleic acid molecule encoding sterol regulatory element-binding protein-
XX 1, a composition comprising the compound and a carrier or diluent,
XX inhibiting the expression of sterol regulatory element-binding protein-1
XX in cells or tissues (by contacting the cells or tissues with the compound
XX so that expression of sterol regulatory element-binding protein-1 is
XX inhibited) and treating an animal having a disease or condition
XX associated with sterol regulatory element-binding protein-1 by
XX administering to the animal a therapeutic or prophylactic amount of the
XX compound so that expression of sterol regulatory element-binding protein-
XX 1 is inhibited. The antisense oligonucleotide comprises at least one
XX modified internucleoside linkage (preferably a phosphorothioate linkage),
XX at least one modified sugar moiety (preferably 2'-O-methoxyethyl sugar
XX moiety) or at least one modified nucleobase (preferably 5-
XX methylcytosine). The compound, composition and methods are useful for
XX treating a disease or condition associated with sterol regulatory element
XX -binding protein-1, such as a metabolic disorder e.g. diabetes, or a
XX cardiovascular disorder, e.g. atherosclerosis or hyperlipidaemia. They
XX are also useful in research and diagnostics for modulating the expression
XX of sterol regulatory element-binding protein-1. The present sequence is a
XX human SREBP-1 target region for the antisense oligonucleotides.
XX
SQ Sequence 20 BP; 4 A; 7 C; 4 G; 5 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 505 GAGGGCTACCTGGAGAA 521
Db 19 GAGGGCTCTCTGCAGAA 3
RESULT 1592

```

ADG72110/c  
ID ADG72110 standard; DNA; 20 BP.  
XX  
AC ADG72110;  
XX  
DT 11-MAR-2004 (first entry)  
XX  
DE Mouse SREBP-1 antisense oligonucleotide ISIS 219640.  
XX  
KW Sterol regulatory element-binding protein-1; SREBP-1; ss; mouse;  
KW antisense gene therapy;  
KW sterol regulatory element-binding transcription factor; SREBF;  
KW metabolic disorder; diabetes; cardiovascular disorder; atherosclerosis;  
KW hyperlipidaemia.  
XX  
OS Mus musculus.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate linkages. All cytidines are 5-methylcytidines"  
FT modified\_base 1..5  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl residues"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl residues"  
XX  
PN US2003224515-A1.  
XX  
XX 04-DEC-2003.  
XX  
XX 04-JUN-2002; 2002US-00161996.  
XX  
XX 04-JUN-2002; 2002US-00161996.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Freier SM, Baker BF, Dobie KW;  
XX WPI; 2004-022079/02.  
XX  
XX New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding sterol regulatory element-binding protein-1, useful for treating diabetes, atherosclerosis or hyperlipidemia.  
XX  
XX Example 16; SEQ ID NO 105; 112pp; English.  
XX  
XX The invention relates to a compound 8-80 nucleobases in length targeted to, and which specifically hybridises with a nucleic acid molecule encoding sterol regulatory element-binding protein-1 (SREBP-1, also known as sterol regulatory element-binding transcription factor, SREBF), and inhibits the expression of SREBP-1, i.e. is an antisense oligonucleotide. Also included are a compound 8-80 nucleobases in length that specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding sterol regulatory element-binding protein-1, a composition comprising the compound and a carrier or diluent, inhibiting the expression of sterol regulatory element-binding protein-1 in cells or tissues (by contacting the cells or tissues with the compound so that expression of sterol regulatory element-binding protein-1 is inhibited) and treating an animal having a disease or condition associated with sterol regulatory element-binding protein-1 by administering to the animal a therapeutic or prophylactic amount of the compound so that expression of sterol regulatory element-binding protein-1 is inhibited. The antisense oligonucleotide comprises at least one modified internucleoside linkage (preferably a phosphorothioate linkage), at least one modified sugar moiety (preferably 2'-O-methoxyethyl sugar moiety) or at least one modified nucleobase (preferably 5-methylcytosine). The compound, composition and methods are useful for

CC treating a disease or condition associated with sterol regulatory element-binding protein-1, such as a metabolic disorder e.g. diabetes, or a cardiovascular disorder, e.g. atherosclerosis or hyperlipidaemia. They are also useful in research and diagnostics for modulating the expression of sterol regulatory element-binding protein-1. The present sequence is an antisense oligonucleotide targeting mouse SREBP-1.  
XX  
SQ Sequence 20 BP; 5 A; 3 C; 9 G; 3 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 1729 CACCTGCCACCTGTGCC 1745  
Db 17 CACCTGCCACCTGTGCC 1  
RESULT 1593  
ADG72241  
ID ADG72241 standard; cDNA; 20 BP.  
XX  
XX ADG72241;  
AC  
XX 11-MAR-2004 (first entry)  
DT  
XX Mouse SREBP-1 target site #10.  
XX  
DE Sterol regulatory element-binding protein-1; SREBP-1; ss; mouse;  
KW antisense gene therapy;  
KW sterol regulatory element-binding transcription factor; SREBF;  
KW metabolic disorder; diabetes; cardiovascular disorder; atherosclerosis;  
KW hyperlipidaemia.  
XX  
OS Mus musculus.  
XX  
XX US2003224515-A1.  
XX  
XX 04-DEC-2003.  
XX  
XX 04-JUN-2002; 2002US-00161996.  
XX  
XX 04-JUN-2002; 2002US-00161996.  
XX  
XX (ISIS-) ISIS PHARM INC.  
XX  
XX Freier SM, Baker BF, Dobie KW;  
XX WPI; 2004-022079/02.  
XX  
XX New compounds, particularly antisense oligonucleotides targeted to a nucleic acid encoding sterol regulatory element-binding protein-1, useful for treating diabetes, atherosclerosis or hyperlipidemia.  
XX  
XX Example 16; SEQ ID NO 236; 112pp; English.  
XX  
XX The invention relates to a compound 8-80 nucleobases in length targeted to, and which specifically hybridises with a nucleic acid molecule encoding sterol regulatory element-binding protein-1 (SREBP-1, also known as sterol regulatory element-binding transcription factor, SREBF), and inhibits the expression of SREBP-1, i.e. is an antisense oligonucleotide. Also included are a compound 8-80 nucleobases in length that specifically hybridises with at least an 8-nucleobase portion of an active site on a nucleic acid molecule encoding sterol regulatory element-binding protein-1, a composition comprising the compound and a carrier or diluent, inhibiting the expression of sterol regulatory element-binding protein-1 in cells or tissues (by contacting the cells or tissues with the compound so that expression of sterol regulatory element-binding protein-1 is inhibited) and treating an animal having a disease or condition associated with sterol regulatory element-binding protein-1 by administering to the animal a therapeutic or prophylactic amount of the compound so that expression of sterol regulatory element-binding protein-1 is inhibited. The antisense oligonucleotide comprises at least one modified internucleoside linkage (preferably a phosphorothioate linkage), at least one modified sugar moiety (preferably 2'-O-methoxyethyl sugar moiety) or at least one modified nucleobase (preferably 5-methylcytosine). The compound, composition and methods are useful for

CC modified internucleoside linkage (preferably a phosphorothioate linkage),  
 CC at least one modified sugar moiety (preferably 2'-O-methoxyethyl sugar  
 CC moiety) or at least one modified nucleobase (preferably 5-  
 CC methylcytosine). The compound, composition and methods are useful for  
 CC treating a disease or condition associated with sterol regulatory element  
 CC -binding protein-1, such as a metabolic disorder e.g. diabetes, or a  
 CC cardiovascular disorder, e.g. atherosclerosis or hyperlipidaemia. They  
 CC are also useful in research and diagnostics for modulating the expression  
 CC of sterol regulatory element-binding protein-1. The present sequence is a  
 CC mouse SREBP-1 target region for the antisense oligonucleotides.

XX SQ Sequence 20 BP; 3 A; 4 C; 8 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 240 TGGCGGCGAGTGACCTG 256

DB 1 TGGTGGCAGTGACTCTG 17

RESULT 1594

ADH67282/c

ID ADH67282 standard; DNA; 20 BP.

XX AC ADH67282;

XX DT 25-MAR-2004 (first entry)

XX DE Human glucocorticoid receptor-specific antisense oligonucleotide #4116.

XX KW antisense oligonucleotide; glucocorticoid receptor; infection;

XX KW inflammation; tumour formation; diabetes; obesity;

XX KW cardiovascular disorder; hyperlipidaemia; Cushing's syndrome; human; ss;

XX KW phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.

XX OS Homo sapiens.

XX PN WO2003099215-A2.

XX XX 04-DEC-2003.

XX 20-MAY-2003; 2003WO-US016084.

XX 20-MAY-2002; 2002US-0381857P.

XX (PHAA ) PHARMACIA CORP.

XX Crosby SD, Nalseth AE;

XX WPI; 2004-035034/03.

XX New antisense compound targeted to a nucleic acid molecule encoding

XX mammalian glucocorticoid receptor, useful for treating diabetes, obesity,

XX cardiovascular disorder, hyperlipidemia or Cushing's syndrome.

XX Claim 4; SEQ ID NO 4116; 985pp; English.

XX The invention comprises an antisense oligonucleotides that are targeted

XX to nucleic acids encoding a mammalian glucocorticoid receptor. The

XX antisense oligonucleotides of the invention are useful for preventing or

XX delaying infection, inflammation or tumour formation. The antisense

XX oligonucleotides are also useful for treating diabetes, obesity,

XX cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The

XX present DNA sequence represents an antisense oligonucleotide that targets

XX the human glucocorticoid receptor gene. NOTE: The present sequence

XX contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothioate backbone.

XX SQ Sequence 20 BP; 5 A; 5 C; 8 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 49 CCAGCAGTGCTGCTGCT 65

DB 17 CCAGCAGTGCTGCTGCT 1

RESULT 1596

ADH54740/c

ID ADH54740 standard; DNA; 20 BP.

XX AC ADH54740;

XX DT 25-MAR-2004 (first entry)

XX XX

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 49 CCAGCAGTGCTGCTGCT 65

DB 18 CCAGCAGTGCTGCTGCT 2

RESULT 1595

ADH66928/c

ID ADH66928 standard; DNA; 20 BP.

XX AC ADH66928;

XX DT 25-MAR-2004 (first entry)

XX DE Human glucocorticoid receptor-specific antisense oligonucleotide #3762.

XX KW antisense oligonucleotide; glucocorticoid receptor; infection;

XX KW inflammation; tumour formation; diabetes; obesity;

XX KW cardiovascular disorder; hyperlipidaemia; Cushing's syndrome; ss;

XX KW phosphorothioate backbone; 2'-methoxyethyl; 2'-MOE.

XX OS Homo sapiens.

XX PN WO2003099215-A2.

XX XX 04-DEC-2003.

XX 20-MAY-2003; 2003WO-US016084.

XX 20-MAY-2002; 2002US-0381857P.

XX (PHAA ) PHARMACIA CORP.

XX Crosby SD, Nalseth AE;

XX WPI; 2004-035034/03.

XX New antisense compound targeted to a nucleic acid molecule encoding

XX mammalian glucocorticoid receptor, useful for treating diabetes, obesity,

XX cardiovascular disorder, hyperlipidemia or Cushing's syndrome.

XX Claim 4; SEQ ID NO 3762; 985pp; English.

XX The invention comprises an antisense oligonucleotides that are targeted

XX to nucleic acids encoding a mammalian glucocorticoid receptor. The

XX antisense oligonucleotides of the invention are useful for preventing or

XX delaying infection, inflammation or tumour formation. The antisense

XX oligonucleotides are also useful for treating diabetes, obesity,

XX cardiovascular disorders, hyperlipidaemia or Cushing's syndrome. The

XX present DNA sequence represents an antisense oligonucleotide that targets

XX the human glucocorticoid receptor gene. NOTE: The present sequence

XX contains 2'-methoxyethyl (2'-MOE) wings and a phosphorothioate backbone.

XX SQ Sequence 20 BP; 5 A; 5 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 49 CCAGCAGTGCTGCTGCT 65

DB 17 CCAGCAGTGCTGCTGCT 1

RESULT 1596

ADH54740/c

ID ADH54740 standard; DNA; 20 BP.

XX AC ADH54740;

XX DT 25-MAR-2004 (first entry)

XX XX

DE Human VEGF-C antisense oligonucleotide ISIS 158128.  
XX human; ss; VEGF-C; cardiovascular disorder; atherosclerosis;  
KW diabetic retinopathy; autoimmune disorder; inflammatory disorder;  
KW vascular endothelial growth factor; antisense.  
XX Synthetic.  
OS Homo sapiens.  
XX US2003232437-A1.  
XX PN 18-DEC-2003.  
XX PD 17-JUN-2002; 2002US-00173718.  
XX PF 17-JUN-2002; 2002US-00173718.  
XX PR 17-JUN-2002; 2002US-00173718.  
XX PA (ISIS-) ISIS PHARM INC.  
XX PI Zhang H, Dobie KW;  
XX WPI; 2004-061284/06.  
XX DR New compounds, particularly antisense oligonucleotides targeted to a  
XX PT nucleic acid encoding vascular endothelial growth factor-C (VEGF-C),  
XX PT useful for treating atherosclerosis, diabetic retinopathy, or  
XX PT inflammatory disorders.  
XX PS Example 15; SEQ ID NO 41; 83pp; English.  
XX CC The invention relates to a compound targeted to and which specifically  
XX CC hybridizes with a nucleic acid molecule encoding VEGF-C, and inhibits the  
XX CC expression of VEGF-C. The compound, composition and methods are useful  
XX CC for treating a disease or condition associated with VEGF-C, such as a  
XX CC cardiovascular disorder e.g. atherosclerosis or diabetic retinopathy or  
XX CC an autoimmune or inflammatory disorder. They are also useful in research  
XX CC and diagnostics for modulating the expression of VEGF-C. The present  
XX CC sequence represents a human VEGF-C antisense oligonucleotide.  
XX SQ Sequence 20 BP; 5 A; 6 C; 4 G; 5 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1564 ATGCCTGACTCAGGCAG 1580  
Db 20 ATGCCTGGCTCAGGAAG 4  
  
RESULT 1597  
ADH89647/C  
ID ADH89647 standard; DNA; 20 BP.  
XX AC ADH89647;  
XX DT 22-APR-2004 (first entry)  
XX DE Human Livin target region ISIS 123483.  
XX KW hyperproliferative disorder; aberrant apoptosis; human; ss; Livin.  
XX OS Homo sapiens.  
XX PN US2004005565-A1.  
XX PD 08-JAN-2004.  
XX PF 02-JUL-2002; 2002US-00188646.  
XX PR 02-JUL-2002; 2002US-00188646.  
XX PA (ISIS-) ISIS PHARM INC.  
  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1564 ATGCCTGACTCAGGCAG 1580  
Db 20 ATGCCTGGCTCAGGAAG 4  
  
RESULT 1597  
ADH89647/C  
ID ADH89647 standard; DNA; 20 BP.  
XX AC ADH89647;  
XX DT 22-APR-2004 (first entry)  
XX DE Human Livin target region ISIS 123483.  
XX KW hyperproliferative disorder; aberrant apoptosis; human; ss; Livin.  
XX OS Homo sapiens.  
XX PN US2004005565-A1.  
XX PD 08-JAN-2004.  
XX PF 02-JUL-2002; 2002US-00188646.  
XX PR 02-JUL-2002; 2002US-00188646.  
XX PA (ISIS-) ISIS PHARM INC.

XX Bennett CF, Dobie KW;  
PI WPI; 2004-098436/10.  
XX DR New antisense oligonucleotide, having a sequence targeted to a nucleic  
XX PT acid encoding Livin, useful for preparing a composition for treating  
XX PT hyperproliferative disorder or aberrant apoptosis.  
XX PS Example 15; SEQ ID NO 116; 60pp; English.  
XX CC The invention relates to an antisense oligonucleotide targeted to a  
XX CC nucleic acid encoding Livin and that specifically hybridizes with the  
XX CC nucleic acid encoding Livin and inhibits expression of Livin. The  
XX CC antisense oligonucleotide is useful for preparing a composition for  
XX CC treating hyperproliferative disorder or aberrant apoptosis. The present  
XX CC sequence represents a human livin target region.  
XX SQ Sequence 20 BP; 2 A; 5 C; 9 G; 4 T; 0 U; 0 Other;  
  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
  
QY 1629 CCCCAGCAGCAGCGGC 1645  
Db 18 CCTCAGCACTCAGCGGC 2  
  
RESULT 1598  
ADH89572  
ID ADH89572 standard; DNA; 20 BP.  
XX AC ADH89572;  
XX DT 22-APR-2004 (first entry)  
XX DE Human Livin antisense oligonucleotide ISIS 205823.  
XX KW hyperproliferative disorder; aberrant apoptosis; human; ss; Livin;  
XX KW antisense.  
XX OS Homo sapiens.  
XX OS Synthetic.  
XX PN US2004005565-A1.  
XX XX 08-JAN-2004.  
XX PF 02-JUL-2002; 2002US-00188646.  
XX PR 02-JUL-2002; 2002US-00188646.  
XX PA (ISIS-) ISIS PHARM INC.  
XX PI Bennett CF, Dobie KW;  
XX WPI; 2004-098436/10.  
XX DE New antisense oligonucleotide, having a sequence targeted to a nucleic  
XX PT acid encoding Livin, useful for preparing a composition for treating  
XX PT hyperproliferative disorder or aberrant apoptosis.  
XX PS Example 15; SEQ ID NO 41; 60pp; English.  
XX CC The invention relates to an antisense oligonucleotide targeted to a  
XX CC nucleic acid encoding Livin and that specifically hybridizes with the  
XX CC nucleic acid encoding Livin and inhibits expression of Livin. The  
XX CC antisense oligonucleotide is useful for preparing a composition for  
XX CC treating hyperproliferative disorder or aberrant apoptosis. The present  
XX CC sequence represents a human livin antisense oligonucleotide.  
XX SQ Sequence 20 BP; 4 A; 9 C; 5 G; 2 T; 0 U; 0 Other;

```
Query Match      0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1629 CCCCAGCAGCGCGGC 1645
    ||||| |||||
Db 3 CCTCAGCAGTCAGCGGC 19

RESULT 1599
ADI79577
ID ADI79577 standard; DNA; 20 BP.
XX
AC ADI79577;
XX
DT 22-APR-2004 (first entry)
XX
DE Human HMG-CoA reductase antisense oligonucleotide, SEQ ID No 100.
XX
KW HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaemic;
KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
KW human; ss.
XX
OS Homo sapiens.
XX
PN US2004006031-A1.
XX
PD 08-JAN-2004.
XX
PF 02-JUL-2002; 2002US-00190366.
XX
PR 02-JUL-2002; 2002US-00190366.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Dean NM, Freier SM, Dobie KW;
XX
DR WPI; 2004-081743/08.
XX
PT New compounds, particularly antisense oligonucleotides targeted to a
PT nucleic acid encoding HMG-CoA reductase, useful for treating
PT atherosclerosis, or a disease involving cholesterol metabolism or
PT angiogenesis.
XX
PS Example 15; SEQ ID NO 100; 110pp; English.
XX
CC The invention relates to novel compounds of 8-80 nucleobases in length
CC targeted to, and which specifically hybridises with, a nucleic acid
CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)
CC reductase, and inhibits the expression of HMG-CoA reductase. The novel
CC compounds have cardiant, antiarteriosclerotic, and antilipaemic
CC activities. The compound can be used to treat disorders by antisense gene
CC therapy. The compounds, compositions and methods are useful for treating
CC a disease or condition associated with HMG-CoA reductase, such as a
CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition
CC involving cholesterol metabolism. They are also useful in research and
CC diagnostics for modulating the expression of HMG-CoA reductase. This
CC polynucleotide sequence represents an antisense oligonucleotide of the
CC invention.
XX
SQ Sequence 20 BP; 7 A; 10 C; 1 G; 2 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 465 CAACAAGCGCCTATCAC 481
    ||||| |||||
Db 3 CAACAAGCTCCATCAC 19

RESULT 1599
ADI79577
ID ADI79577 standard; DNA; 20 BP.
XX
AC ADI79577;
XX
DT 22-APR-2004 (first entry)
XX
DE Human HMG-CoA reductase antisense oligonucleotide, SEQ ID No 100.
XX
KW HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaemic;
KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
KW human; ss.
XX
OS Homo sapiens.
XX
PN US2004006031-A1.
XX
PD 08-JAN-2004.
XX
PF 02-JUL-2002; 2002US-00190366.
XX
PR 02-JUL-2002; 2002US-00190366.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Dean NM, Freier SM, Dobie KW;
XX
DR WPI; 2004-081743/08.
XX
PT New compounds, particularly antisense oligonucleotides targeted to a
PT nucleic acid encoding HMG-CoA reductase, useful for treating
PT atherosclerosis, or a disease involving cholesterol metabolism or
PT angiogenesis.
XX
PS Example 15; SEQ ID NO 100; 110pp; English.
XX
CC The invention relates to novel compounds of 8-80 nucleobases in length
CC targeted to, and which specifically hybridises with, a nucleic acid
CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)
CC reductase, and inhibits the expression of HMG-CoA reductase. The novel
CC compounds have cardiant, antiarteriosclerotic, and antilipaemic
CC activities. The compound can be used to treat disorders by antisense gene
CC therapy. The compounds, compositions and methods are useful for treating
CC a disease or condition associated with HMG-CoA reductase, such as a
CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition
CC involving cholesterol metabolism. They are also useful in research and
CC diagnostics for modulating the expression of HMG-CoA reductase. This
CC polynucleotide sequence represents an antisense oligonucleotide of the
CC invention.
XX
SQ Sequence 20 BP; 7 A; 10 C; 1 G; 2 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 465 CAACAAGCGCCTATCAC 481
    ||||| |||||
Db 3 CAACAAGCTCCATCAC 19

RESULT 1600
ADI79774/C
ID ADI79774 standard; DNA; 20 BP.
XX
AC ADI79774;
XX
DT 22-APR-2004 (first entry)
XX
DE Human HMG-CoA reductase antisense oligonucleotide, SEQ ID No 297.
XX
KW HMG-CoA reductase; 3-hydroxy-3-methylglutaryl-Coenzyme A;
KW HMG-CoA reductase; cardiant; antiarteriosclerotic; antilipaemic;
KW antisense gene therapy; cardiovascular disorder; cholesterol metabolism;
KW human; ss.
XX
OS Homo sapiens.
XX
PN US2004006031-A1.
XX
PD 08-JAN-2004.
XX
PF 02-JUL-2002; 2002US-00190366.
XX
PR 02-JUL-2002; 2002US-00190366.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Dean NM, Freier SM, Dobie KW;
XX
DR WPI; 2004-081743/08.
XX
PT New compounds, particularly antisense oligonucleotides targeted to a
PT nucleic acid encoding HMG-CoA reductase, useful for treating
PT atherosclerosis, or a disease involving cholesterol metabolism or
PT angiogenesis.
XX
PS Example 16; SEQ ID NO 297; 110pp; English.
XX
CC The invention relates to novel compounds of 8-80 nucleobases in length
CC targeted to, and which specifically hybridises with, a nucleic acid
CC molecule encoding 3-hydroxy-3-methylglutaryl-Coenzyme A (HMG-CoA)
CC reductase, and inhibits the expression of HMG-CoA reductase. The novel
CC compounds have cardiant, antiarteriosclerotic, and antilipaemic
CC activities. The compound can be used to treat disorders by antisense gene
CC therapy. The compounds, compositions and methods are useful for treating
CC a disease or condition associated with HMG-CoA reductase, such as a
CC cardiovascular disorder e.g. atherosclerosis, or a disease or condition
CC involving cholesterol metabolism. They are also useful in research and
CC diagnostics for modulating the expression of HMG-CoA reductase. This
CC polynucleotide sequence represents an antisense oligonucleotide of the
CC invention.
XX
SQ Sequence 20 BP; 2 A; 1 C; 10 G; 7 T; 0 U; 0 Other;

Query Match      0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 465 CAACAAGCGCCTATCAC 481
    ||||| |||||
Db 18 CAACAAGCTCCATCAC 2

RESULT 1601
ADI38820
ID ADI38820 standard; DNA; 20 BP.
XX
AC ADI38820;
XX
DT 22-APR-2004 (first entry)
XX
DE Human LIM domain kinase 1 antisense oligonucleotide #104.
XX
```

```
KW neuroprotective; LIM domain kinase 1; developmental disorder;
KW neurological disorder; diagnostic; prophylaxis; human; ss.
XX
XX
XX OS Homo sapiens.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT are 5-methylcytidines"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
FT modified_base 15..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
XX US2004014047-A1.
XX
XX 22-JAN-2004.
XX
XX 18-JUL-2002; 2002US-00199199.
XX
XX 18-JUL-2002; 2002US-00199199.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Cowser LM, Dobie KW;
XX
XX WPI; 2004-121553/12.
XX
XX New antisense oligonucleotides for modulating LIM domain kinase 1
XX expression, useful for diagnosing, preventing or treating conditions
XX associated with the kinase, e.g. neurological or developmental disorders.
XX
XX Example 15; SEQ ID NO 119; 81pp; English.
XX
XX The invention describes a compound 8-80 nucleobases in length targeted to
XX a nucleic acid molecule encoding LIM domain kinase 1. The compound
XX specifically hybridises with the nucleic acid molecule encoding LIM
XX domain kinase 1 and inhibits the expression of LIM domain kinase 1. It
XX specifically hybridises with at least an 8-nucleobase portion of a
XX preferred target region on the nucleic acid molecule encoding LIM domain
XX kinase 1. The antisense oligonucleotide is useful for modulating the
XX expression of LIM domain kinase 1 in cells or tissues to treat diseases
XX associated with their expression, such as a developmental disorder or a
XX neurological disorder. In addition, the compound is used for diagnostics,
XX prophylaxis, or as research reagents or kits. This sequence represents a
XX human LIM domain kinase 1 antisense oligonucleotide.
XX
XX SQ Sequence 20 BP; 4 A; 9 C; 5 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 20;
XX Best Local Similarity 88.2%; Pred. No. 1e+03;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 760 TCCCTGCTCAAGGACCT 776
XX ||||| |||||
XX 4 TCCACGCGCAGGACCT 20
XX
XX RESULT 1603
XX ADI38749/c
XX ID ADI38749 standard; DNA; 20 BP.
XX
XX AC ADI38749;
XX
XX 22-APR-2004 (first entry)
XX
XX DE Human LIM domain kinase 1 antisense oligonucleotide #33.
```

```
XX neuroprotective; LIM domain kinase 1; developmental disorder;
KW neurological disorder; diagnostic; prophylaxis; human; ss.
XX
XX OS Homo sapiens.
XX
XX Key Location/Qualifiers
FH modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT are 5-methylcytidines"
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
FT modified_base 15..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
XX US2004014047-A1.
XX
XX 22-JAN-2004.
XX
XX 18-JUL-2002; 2002US-00199199.
XX
XX 18-JUL-2002; 2002US-00199199.
XX
XX (ISIS-) ISIS PHARM INC.
XX
XX Cowser LM, Dobie KW;
XX
XX WPI; 2004-121553/12.
XX
XX New antisense oligonucleotides for modulating LIM domain kinase 1
XX expression, useful for diagnosing, preventing or treating conditions
XX associated with the kinase, e.g. neurological or developmental disorders.
XX
XX Example 15; SEQ ID NO 48; 81pp; English.
XX
XX The invention describes a compound 8-80 nucleobases in length targeted to
XX a nucleic acid molecule encoding LIM domain kinase 1. The compound
XX specifically hybridises with the nucleic acid molecule encoding LIM
XX domain kinase 1 and inhibits the expression of LIM domain kinase 1. It
XX specifically hybridises with at least an 8-nucleobase portion of a
XX preferred target region on the nucleic acid molecule encoding LIM domain
XX kinase 1. The antisense oligonucleotide is useful for modulating the
XX expression of LIM domain kinase 1 in cells or tissues to treat diseases
XX associated with their expression, such as a developmental disorder or a
XX neurological disorder. In addition, the compound is used for diagnostics,
XX prophylaxis, or as research reagents or kits. This sequence represents a
XX human LIM domain kinase 1 antisense oligonucleotide.
XX
XX SQ Sequence 20 BP; 2 A; 5 C; 9 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 20;
XX Best Local Similarity 88.2%; Pred. No. 1e+03;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 760 TCCCTGCTCAAGGACCT 776
XX ||||| |||||
XX 17 TCCACGCGCAGGACCT 1
XX
XX RESULT 1603
XX ADI38608
XX ID ADI38608 standard; DNA; 20 BP.
XX
XX AC ADI38608;
XX
XX 22-APR-2004 (first entry)
XX
XX DT
```

```
DE Dual specific phosphatase 6 antisense oligonucleotide #17.
XX
KW cytostatic; antiinflammatory; antisense therapy;
KW dual specific phosphatase 6; hyperproliferative disorder; apoptosis;
KW inflammatory disorder; developmental disorder; diagnostic; prophylaxis;
KW human; antisense technology; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT modified_base 15..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
PN US2004014048-A1.
XX
PD 22-JAN-2004.
XX
PF 18-JUL-2002; 2002US-00199221.
XX
PR 18-JUL-2002; 2002US-00199221.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Monia BP, Cowser LM, Dobie KW;
XX
DR WPI; 2004-121554/12.
XX
PT New antisense oligonucleotides for modulating dual specific phosphatase 6
PT expression, useful for diagnosing, preventing or treating conditions
PT associated with the phosphatase, e.g. hyperproliferative or inflammatory
PT disorders.
XX
PS Example 15; SEQ ID NO 29; 54pp; English.
XX
CC The invention describes a compound 8-80 nucleobases in length targeted to
CC a nucleic acid molecule encoding dual specific phosphatase 6. The
CC compound specifically hybridises with the nucleic acid molecule encoding
CC dual specific phosphatase 6 and inhibits the expression of dual specific
CC phosphatase 6. It specifically hybridises with at least an 8-nucleobase
CC portion of a preferred target region on the nucleic acid molecule
CC encoding dual specific phosphatase 6. The antisense oligonucleotide is
CC useful for inhibiting the expression of dual specific phosphatase 6 in
CC cells or tissues to treat diseases associated with their expression, such
CC as a hyperproliferative disorder, a condition arising from aberrant
CC apoptosis, an inflammatory disorder or a developmental disorder. In
CC addition, the compound is used for diagnostics, prophylaxis, or as
CC research reagents or kits. This sequence represents a human dual specific
CC phosphatase 6 antisense oligonucleotide.
XX
SQ Sequence 20 BP; 7 A; 4 C; 6 G; 3 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 445 AAGATCTCCACTGAGGA 461
DB 1 AAGATCTCCACTGGAA 17
RESULT 1604
AD126884/c
```

```
ID AD126884 standard; DNA; 20 BP.
XX
AC AD126884;
XX
DT 22-APR-2004 (first entry)
XX
DE Cyclin dependent kinase 4 antisense oligonucleotide #50.
XX
KW cytostatic; antidiabetic; antiinfertility; gene therapy;
KW cyclin-dependent kinase 4; diabetes; infertility;
KW hyperproliferative disorder; cancer; antisense technology; human; ss.
XX
OS Homo sapiens.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /note= "OTHER= Phosphorothioate backbone. All cytidines
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT modified_base 15..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"
XX
PN US2004005567-A1.
XX
PD 08-JAN-2004.
XX
PF 02-JUL-2002; 2002US-00188779.
XX
PR 02-JUL-2002; 2002US-00188779.
XX
PA (ISIS-) ISIS PHARM INC.
XX
PI Dean NM, Freier SM, Dobie KW;
XX
DR WPI; 2004-081710/08.
XX
PT New antisense oligonucleotide, having a sequence targeted to a nucleic
PT acid encoding cyclin-dependent kinase 4, useful for preparing a
PT composition for treating diabetes, infertility or hyperproliferative
PT disorder, e.g., cancer.
XX
PS Example 15; SEQ ID NO 69; 90pp; English.
XX
CC The invention describes a new antisense oligonucleotide, having a
CC sequence comprising 8-80 bp targeted to a nucleic acid encoding cyclin-
CC dependent kinase 4, specifically hybridises with the nucleic acid
CC encoding cyclin-dependent kinase 4 and inhibits expression of cyclin-
CC dependent kinase 4. The antisense oligonucleotide is useful for preparing
CC a composition for treating diabetes, infertility or hyperproliferative
CC disorder, e.g., cancer. This sequence represents a human cyclin dependent
CC kinase 4 antisense oligonucleotide.
XX
SQ Sequence 20 BP; 5 A; 5 C; 6 G; 4 T; 0 U; 0 Other;
Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
QY 689 ACCTTGTGGCACTCAAG 705
DB 19 ACTTGTGGCCCTCAAG 3
RESULT 1605
AD179383
ID AD179383 standard; DNA; 20 BP.
```

XX AC ADI79383;  
XX DT 22-APR-2004 (first entry)  
XX DE Mouse Sema3C reverse transcriptase PCR primer SEQ ID NO:21.  
XX KW invasive disease; disease pathogenesis; malignant; cancer; metastasis;  
XX KW tumour progression; cytostatic; immunosuppressive; neuroprotective;  
XX KW cardiac; antimicrobial; nephrotropic; respiratory; vaccine;  
XX KW gene therapy; autoimmune disease; infectious disease;  
XX KW growth disturbance disease; neurological disease; cardiovascular disease;  
XX KW respiratory disease; kidney disease; neoplastic disease; mouse; Sema3C;  
XX KW semaphorin; reverse transcriptase; PCR; primer; ss.  
XX OS Mus sp.  
XX OS Synthetic.  
XX PN WO2004006898-A2.  
XX XX  
XX PD 22-JAN-2004.  
XX XX  
XX PF 10-JUL-2003; 2003WO-DK000486.  
XX XX  
XX PR 11-JUL-2002; 2002DK-00001092.  
XX XX  
XX PA (SEMA-) SEMA APS.  
XX XX  
XX PI Christensen C, Lukanidin E, Olsen O, Albrechtsen M;  
XX WPI; 2004-122767/12.  
XX XX  
XX PT Use of an agent for preparing a medicament for preventing progression of  
XX PT an invasive disease, for treating malignant forms of cancer or for  
XX PT preventing metastasis of cancer in vivo and tumor progression in vitro  
XX PT and/or in vivo.  
XX XX  
XX PS Example 1; SEQ ID NO 21; 134pp; English.  
XX XX  
XX CC The present invention describes an agent which can be used for preparing  
XX CC a medicament for preventing the progression of an invasive disease in an  
XX CC individual, where invasion of cells, other organisms or invasion of  
XX CC itself plays a role in disease pathogenesis, for treating malignant forms  
XX CC of cancer or for preventing metastasis of cancer in vivo and tumour  
XX CC progression in vitro and/or in vivo. The agent comprises: (a) an agent  
XX CC capable of inhibiting expression of a polypeptide belonging to the  
XX CC semaphorin family of proteins; (b) an agent capable of inhibiting  
XX CC intracellular or extracellular proteolytic processing of a polypeptide  
XX CC belonging to the semaphorin family of proteins, where the agent is  
XX CC selected from antibodies or fragments of antibodies directed to the  
XX CC polypeptide, or fragments or variants of fragments of the polypeptide;  
XX CC and/or (c) an agent capable of inhibiting binding of a proteolytic  
XX CC fragment of a polypeptide belonging to the semaphorin family of proteins  
XX CC to a receptor and thereby inhibiting sequential activation of the  
XX CC receptor. Also described: (1) an antisense compound capable of inhibiting  
XX CC expression of the semaphorin; (2) a peptide compound, capable of binding  
XX CC a protein convertase and thereby inhibiting the activity of the  
XX CC convertase; (3) an isolated polyclonal or monoclonal antibody compound;  
XX CC (4) a hybridoma cell line capable of producing a monoclonal antibody; and  
XX CC (5) a method for diagnosing or prognosing malignant cancer. The agent has  
XX CC cytostatic, immunosuppressive, neuroprotective, cardiac, antimicrobial,  
XX CC nephrotropic and respiratory activities, and can be used in vaccines and  
XX CC in gene therapy. The agent is useful for preparing a medicament for  
XX CC preventing progression of an invasive disease, e.g., autoimmune,  
XX CC infectious, growth disturbance, neurological, cardiovascular,  
XX CC respiratory, kidney or neoplastic diseases, where invasion of cells,  
XX CC other organisms or invasion of itself plays a role in disease  
XX CC pathogenesis, for treating malignant forms of cancer or for preventing  
XX CC metastasis of cancer in vivo and tumour progression in vitro and/or in  
XX CC vivo. The present sequence represents a reverse transcriptase PCR primer  
XX CC for mouse Sema3C, which is used in the exemplification of the present  
XX CC invention.

SQ Sequence 20 BP; 2 A; 5 C; 6 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 872 ACCTGGATGACTGTGG 888

Db 4 ACCTGTATGTCTGTGG 20

RESULT 1606

ADI19207/c

ID ADI19207 standard; DNA; 20 BP.

XX AC ADI19207;

XX DT 22-APR-2004 (first entry)

XX DE Human PCTAIRE protein kinase 2 antisense oligonucleotide #61.

XX KW gene therapy; antisense technology; PCTAIRE protein kinase 2;

XX KW neurological disorder; human; PCTAIRE protein kinase 2; ss.

XX OS Homo sapiens.

XX FH Key Location/Qualifiers

XX FT modified\_base 1..20

XX FT /tag= b

XX FT /mod\_base= OTHER

XX FT /note= "OTHER= Phosphorothioate backbone. All cytidines

XX FT are 5-methylcytidines"

XX FT modified\_base 1..5

XX FT /tag= a

XX FT /mod\_base= OTHER

XX FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"

XX FT modified\_base 15..20

XX FT /tag= c

XX FT /mod\_base= OTHER

XX FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"

XX US2003225256-A1.

XX PN 04-DEC-2003.

XX PD 31-MAY-2002; 2002US-00160787.

XX PF 31-MAY-2002; 2002US-00160787.

XX PR (ISIS-) ISIS PHARM INC.

XX PA Watt AT;

XX PI WPI; 2004-022085/02.

XX DR New antisense oligonucleotide, having a sequence targeted to a nucleic

XX PT acid encoding PCTAIRE protein kinase 2, useful for preparing a

XX PT composition for treating neurological disorders.

XX XX Example 15; SEQ ID NO 74; 58pp; English.

XX CC The invention describes a new antisense oligonucleotide, having a  
XX CC sequence comprising 8-80 bp targeted to a nucleic acid encoding PCTAIRE  
XX CC protein kinase 2, that specifically hybridises with the nucleic acid  
XX CC encoding PCTAIRE protein kinase 2 and having a sequence comprising 20 bp.  
XX CC The antisense oligonucleotide is useful for preparing a composition for  
XX CC treating e.g., neurological disorders. This sequence represents a human  
XX CC PCTAIRE protein kinase 2 antisense oligonucleotide.

SQ Sequence 20 BP; 3 A; 6 C; 3 G; 8 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;





ADJ31669/c  
 ID ADJ31669 standard; DNA; 20 BP.  
 XX AC ADJ31669;  
 XX DT 22-APR-2004 (first entry)  
 XX DE Human haem oxygenase 1 antisense oligonucleotide, ISIS #203104.  
 XX KW Haem oxygenase 1; HO; hyperbilirubinemia; neonatal jaundice;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW antisense-therapy; neurotropic; neuroprotective; human;  
 KW phosphorothioate backbone; antisense; ss.  
 XX OS Homo sapiens.  
 XX OS Synthetic.  
 XX FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= b  
 FT /\*mod\_base= OTHER  
 FT /\*note= "Phosphorothioate backbone where all cytidines are  
 FT 5-methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= a  
 FT /\*mod\_base= OTHER  
 FT /\*note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /\*mod\_base= OTHER  
 FT /\*note= "2'-methoxyethyl (2'-MOE) nucleotides"  
 FT US2003235913-A1.  
 XX PD 25-DEC-2003.  
 XX PF 20-JUN-2002; 2002US-00178258.  
 XX PR 20-JUN-2002; 2002US-00178258.  
 XX PA (ISIS-) ISIS PHARM INC.  
 XX PI Dobie KW;  
 XX DR WPI; 2004-070587/07.  
 XX PS New antisense oligonucleotide compounds, useful for diagnosing,  
 PT preventing and/or treating conditions with aberrant activity of heme  
 PT oxygenase 1, such as hyperbilirubinemia, neonatal jaundice and  
 PT neurodegenerative diseases.  
 XX PS Example 15; SEQ ID NO 15; 43pp; English.  
 XX CC The present invention relates to antisense compounds, compositions and  
 CC methods used for modulating the expression of haem oxygenase (HO) 1. The  
 CC methods and compositions of the present invention are useful for the  
 CC diagnosis, prevention and/or treatment of diseases or conditions  
 CC associated with aberrant expression or activity of haem oxygenase 1 such  
 CC as hyperbilirubinemia, neonatal jaundice and neurodegenerative diseases  
 CC like Alzheimer's and Parkinson's disease. The invention is also useful in  
 CC antisense-therapy. The present sequence is human haem oxygenase 1  
 CC antisense oligonucleotide used in the exemplification of the invention.  
 XX SQ Sequence 20 BP; 3 A; 7 C; 7 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 861 CCTGAAGCAGTACCTGG 877  
 |||||  
 DB 20 CCTGGAGCAGGACCTGG 4

RESULT 1610  
 ADJ36703  
 ID ADJ36703 standard; DNA; 20 BP.  
 XX AC ADJ36703;  
 XX DT 22-APR-2004 (first entry)  
 XX DE Human gene 216 SNP detection primer seq id 94.  
 XX KW antiasthmatic; respiratory; gene therapy; asthma;  
 KW bronchial hyperresponsiveness; atopy; chronic obstructive lung disease;  
 KW adult respiratory distress syndrome; obesity; inflammatory bowel disease;  
 KW human; gene 216; single nucleotide polymorphism; SNP; PCR; primer; ss.  
 XX OS Homo sapiens.  
 XX OS US2004002470-A1.  
 XX PD 01-JAN-2004.  
 XX PF 17-OCT-2002; 2002US-00277216.  
 XX PR 13-APR-2000; 2000US-00548797.  
 PR 13-APR-2001; 2001US-00834597.  
 PR 19-APR-2002; 2002US-00126022.  
 XX (KEIT/) KEITH T.  
 PA (LITT/) LITTLE R D.  
 PA (VEER/) VAN EERDEWEGH P.  
 PA (DUPU/) DUPUIS J.  
 PA (DMAS/) DEL MASTRO R G.  
 PA (SIMO/) SIMON J.  
 PA (ALLE/) ALLEN K.  
 PA (PAND/) PANDIT S.  
 XX Keith T, Little RD, Eerdewegh PV, Dupuis J, Del Mastro RG;  
 PI Simon J, Allen K, Pandit S;  
 XX WPI; 2004-061675/06.  
 XX DR Gene 216 nucleic acid, useful for preparing a composition for treating  
 XX disorders e.g., asthma, bronchial hyperresponsiveness, atopy, chronic  
 XX obstructive lung disease and adult respiratory distress syndrome.  
 XX PS Example 10; SEQ ID NO 94; 441pp; English.  
 XX CC The invention describes a new isolated nucleic acid comprising a fully  
 CC defined sequence having 23574 bp or at least its 50 or 15 contiguous  
 CC nucleotides and includes: allele G of single nucleotide polymorphism  
 CC (SNP) AB+2; allele G of SNP BC+1; and allele C of SNP BC+2. The invention  
 CC describes identifying increased susceptibility to a disorder comprising  
 CC asthma, bronchial hyperresponsiveness, atopy, chronic obstructive lung  
 CC disease and adult respiratory distress syndrome in a subject comprising  
 CC testing a biological sample obtained from a subject for the presence of  
 CC at least one allele or haplotype given in the specification, where the  
 CC presence identifies an increased susceptibility to the disorder. The  
 CC nucleic acid is useful for preparing a composition for treating disorders  
 CC comprising asthma, bronchial hyperresponsiveness, atopy, chronic  
 CC obstructive lung disease and adult respiratory distress syndrome. This  
 CC sequence represents a primer used to detect single nucleotide  
 CC polymorphisms in the human gene 216.  
 XX SQ Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 538 CCCATCTTTGACAGCC 554  
 |||||  
 DB 2 CCCCTCTGTGACAGCC 18

```
RESULT 1611
ADJ36763/C
ID ADJ36763 standard; DNA; 20 BP.
XX
XX ADJ36763;
AC
XX
DT 22-APR-2004 (first entry)
XX
XX Human gene 216 SNP detection primer seq id 154.
XX
XX antiasthmatic; respiratory; gene therapy; asthma;
XX bronchial hyperresponsiveness; atopy; chronic obstructive lung disease;
XX adult respiratory distress syndrome; obesity; inflammatory bowel disease;
XX human; gene 216; single nucleotide polymorphism; SNP; PCR; primer; ss.
XX
OS Homo sapiens.
XX
XX US2004002470-A1.
XX
XX 01-JAN-2004.
PD
XX
XX 17-OCT-2002; 2002US-00277216.
XX
XX 13-APR-2000; 2000US-00548797.
XX
XX 13-APR-2001; 2001US-00834597.
XX
XX 19-APR-2002; 2002US-00126022.
XX
XX (KEIT/) KEITH T.
XX (LITT/) LITTLE R. D.
XX (VEER/) VAN EERDEWEGH P.
XX (DUPU/) DUPUIS J.
XX (DMAS/) DEL MASTRO R. G.
XX (SIMO/) SIMON K.
XX (ALLE/) ALLEN K.
XX (PAND/) PANDIT S.
XX
XX Keith T, Little RD, Eerdewegh PV, Dupuis J, Del Mastro RG;
XX Simon J, Allen K, Pandit S;
XX
XX WPI; 2004-061675/06.
XX
XX Gene 216 nucleic acid, useful for preparing a composition for treating
XX disorders e.g., asthma, bronchial hyperresponsiveness, atopy, chronic
XX obstructive lung disease and adult respiratory distress syndrome.
XX
XX Example 10; SEQ ID NO 154; 441pp; English.
XX
XX The invention describes a new isolated nucleic acid comprising a fully
XX defined sequence having 23574 bp or at least its 50 or 15 contiguous
XX nucleotides and includes: allele G of single nucleotide polymorphism
XX (SNP) AB+2; allele G of SNP BC+1; and allele C of SNP BC+2. The invention
XX describes identifying increased susceptibility to a disorder comprising
XX asthma, bronchial hyperresponsiveness, atopy, chronic obstructive lung
XX disease and adult respiratory distress syndrome in a subject comprising
XX testing a biological sample obtained from a subject for the presence of
XX at least one allele or haplotype given in the specification, where the
XX presence identifies an increased susceptibility to the disorder. The
XX nucleic acid is useful for preparing a composition for treating disorders
XX comprising asthma, bronchial hyperresponsiveness, atopy, chronic
XX obstructive lung disease and adult respiratory distress syndrome. This
XX sequence represents a primer used to detect single nucleotide
XX polymorphisms in the human gene 216.
XX
XX Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 20;
XX Best Local Similarity 88.2%; Pred. No. 1e+03;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX 538 CCCATCTTTGACAGGCC 554
XX ||||| ||||| ||||| |||||
XX
```

```
Db 19 CCCTTCTGTGACAGGCC 3
RESULT 1612
ADK96976/c
ID ADK96976 standard; DNA; 20 BP.
XX
XX ADK96976;
AC
XX
DT 06-MAY-2004 (first entry)
XX
XX Primer of the invention #2696.
XX
XX human; single nucleotide polymorphism; SNP; ss; primer.
XX
XX Synthetic.
XX
XX JP2003259875-A.
XX
XX 16-SEP-2003.
PD
XX
XX 08-MAR-2002; 2002JP-00064373.
XX
XX 08-MAR-2002; 2002JP-00064373.
XX
XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.
XX
XX WPI; 2004-093977/10.
XX
XX Novel polynucleotide useful for PCR amplification along with two DNA
XX fragment from another set of sequences, or for detecting single
XX nucleotide polymorphism in human gene.
XX
XX Claim 2; SEQ ID NO 6005; 2627pp; Japanese.
XX
XX The present invention relates to a polynucleotide isolated from a human
XX gene and is useful for detecting a single nucleotide polymorphism in a
XX human gene or for diagnosing of disease. The invention enables the
XX detection of a single nucleotide polymorphism in a human gene. The
XX present sequence represents a primer of the invention.
XX
XX Sequence 20 BP; 3 A; 8 C; 4 G; 5 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 20;
XX Best Local Similarity 88.2%; Pred. No. 1e+03;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX 165 ACTCCGAGGTGGCCGAG 181
XX ||||| ||||| ||||| |||||
XX 19 AGTCCGAGGTGGCCCAAG 3
XX
XX RESULT 1613
ADK94803
ID ADK94803 standard; DNA; 20 BP.
XX
XX ADK94803;
AC
XX
DT 06-MAY-2004 (first entry)
XX
XX Primer of the invention #523.
XX
XX human; single nucleotide polymorphism; SNP; ss; primer.
XX
XX Synthetic.
XX
XX JP2003259875-A.
XX
XX 16-SEP-2003.
PD
XX
XX 08-MAR-2002; 2002JP-00064373.
XX
XX 08-MAR-2002; 2002JP-00064373.
XX
```

XX (KAGA-) KAGAKU GIJUTSU SHINKO JIGYODAN.  
 PA WPI; 2004-093977/10.  
 DR Novel polynucleotide useful for PCR amplification along with two DNA  
 XX fragment from another set of sequences, or for detecting single  
 PT nucleotide polymorphism in human gene.  
 PT Claim 2; SEQ ID NO 3832; 2627bp; Japanese.  
 PS The present invention relates to a polynucleotide isolated from a human  
 CC gene and is useful for detecting a single nucleotide polymorphism in a  
 CC human gene or for diagnosing of disease. The invention enables the  
 CC detection of a single nucleotide polymorphism in a human gene. The  
 CC present sequence represents a primer of the invention.  
 CC Sequence 20 BP; 3 A; 8 C; 4 G; 5 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1729 CACCTGCCCACTGTGCC 1745  
 DB ||||| ||||| ||||| ||||| |||||  
 1 CACGTGACCACCTGTGCC 17  
 RESULT 1614  
 ID ADJ61393 standard; DNA; 20 BP.  
 XX AC ADJ61393;  
 XX DT 06-MAY-2004 (first entry)  
 XX DE Oligonucleotide associated to IL5R-X61176 #85.  
 XX Interleukin; IL-4 receptor; IL-5 receptor; lung disease;  
 KW airway inflammation; allergy; asthma; impeded respiration;  
 KW cystic fibrosis; acute respiratory distress syndrome;  
 KW pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;  
 KW ss.  
 XX Homo sapiens.  
 XX OS WO2004011613-A2.  
 XX PN 05-FEB-2004.  
 XX PD 25-JUL-2003; 2003WO-US023509.  
 XX PF 29-JUL-2002; 2002US-0399076P.  
 XX PR (EPIG-) EPIGENESIS PHARM INC.  
 XX PA Nyce JW, Tang L, Sandrasagra A, Aguilar D, Miller S;  
 XX PI Shahabuddin S, Lu H, Cong H;  
 XX PI WPI; 2004-203534/19.  
 XX DR Novel single or multiple target oligonucleotide anti-sense to e.g.,  
 XX initiation codons and introns of respiratory disease-relevant genes e.g.,  
 XX CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory  
 XX disease e.g., asthma.  
 XX Claim 2; SEQ ID NO 2249; 85pp; English.  
 XX The present invention relates to an oligonucleotide anti-sense to e.g.,  
 CC initiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-  
 CC end of nucleic acid target comprising gene(s) chosen from e.g.,  
 CC interleukin (IL)-4 receptor, IL-5 receptor or salts of the  
 CC oligonucleotide and optionally surfactant operatively linked to the

CC oligonucleotide. The method is useful for preventing or treating a  
 CC respiratory or lung disease, which involves administering to the airways  
 CC of a subject an effective amount of an inhibitor. The oligonucleotide is  
 CC useful for production of a medicament for the prevention and/or treatment  
 CC of a respiratory or lung disease. The respiratory or lung disease is  
 CC chosen from airway inflammation, allergy(ies), asthma, impeded  
 CC respiration, cystic fibrosis (CF), chronic obstructive pulmonary diseases  
 CC (COPD), allergic rhinitis (AR), acute respiratory distress syndrome  
 CC (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway  
 CC obstruction. The present sequence represents an oligonucleotide of the  
 CC invention.  
 XX Sequence 20 BP; 6 A; 4 C; 3 G; 7 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1444 ATGAACATCCATCTT 1460  
 DB ||||| ||||| ||||| ||||| |||||  
 2 ATGAAGCATCCATCTT 18  
 RESULT 1615  
 ID ADJ59452 standard; DNA; 20 BP.  
 XX AC ADJ59452;  
 XX DT 06-MAY-2004 (first entry)  
 XX DE Oligonucleotide associated to IL 5R #149.  
 XX Interleukin; IL-4 receptor; IL-5 receptor; lung disease;  
 KW airway inflammation; allergy; asthma; impeded respiration;  
 KW cystic fibrosis; acute respiratory distress syndrome;  
 KW pulmonary hypertension; lung inflammation; bronchitis; oligonucleotide;  
 KW ss.  
 XX Homo sapiens.  
 XX OS WO2004011613-A2.  
 XX PN 05-FEB-2004.  
 XX PD 25-JUL-2003; 2003WO-US023509.  
 XX PF 29-JUL-2002; 2002US-0399076P.  
 XX PR (EPIG-) EPIGENESIS PHARM INC.  
 XX PA Nyce JW, Tang L, Sandrasagra A, Aguilar D, Miller S;  
 XX PI Shahabuddin S, Lu H, Cong H;  
 XX PI WPI; 2004-203534/19.  
 XX DR Novel single or multiple target oligonucleotide anti-sense to e.g.,  
 XX initiation codons and introns of respiratory disease-relevant genes e.g.,  
 XX CCR1, RANTES, MCP4, useful for prophylaxis or treating respiratory  
 XX disease e.g., asthma.  
 XX Claim 2; SEQ ID NO 308; 85pp; English.  
 XX The present invention relates to an oligonucleotide anti-sense to e.g.,  
 CC initiation codon, coding region with 2-10 nucleotides of 5'-end and 3'-  
 CC end of nucleic acid target comprising gene(s) chosen from e.g.,  
 CC interleukin (IL)-4 receptor, IL-5 receptor or salts of the  
 CC oligonucleotide and optionally surfactant operatively linked to the  
 CC oligonucleotide. The method is useful for preventing or treating a  
 CC respiratory or lung disease, which involves administering to the airways  
 CC of a subject an effective amount of an inhibitor. The oligonucleotide is  
 CC useful for production of a medicament for the prevention and/or treatment  
 CC of a respiratory or lung disease. The respiratory or lung disease is

CC chosen from airway inflammation, allergy(ies), asthma, impeded  
 CC respiration, cystic fibrosis (CF), chronic obstructive pulmonary diseases  
 CC (COPD), allergic rhinitis (AR), acute respiratory distress syndrome  
 CC (ARDS), pulmonary hypertension, lung inflammation, bronchitis, airway  
 CC obstruction. The present sequence represents an oligonucleotide of the  
 CC invention.  
 XX  
 SQ Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1444 ATGAACATCCATCTT 1460  
 Db 3 ATGAGCATCCATCTT 19

RESULT 1616  
 ADJ93778  
 ID ADJ93778 standard; DNA; 20 BP.  
 AC ADJ93778;  
 XX  
 DT 06-MAY-2004 (first entry)  
 XX  
 DE Forward primer Ex3 AG dir.  
 XX  
 KW Insecticide; acetylcholine esterase; ace-1; organophosphorus; carbamate;  
 KW insecticide; resistance; AChE1; mosquito; PCR; primer; ss.  
 XX  
 OS Synthetic.  
 OS  
 PN WO2004000994-A2.  
 XX  
 PD 31-DEC-2003.  
 XX  
 XX 19-JUN-2003; 2003WO-FR001876.  
 PF 20-JUN-2002; 2002FR-00007622.  
 PR 05-NOV-2002; 2002FR-00013799.  
 XX  
 XX (CNRS ) CENT NAT RECH SCI.  
 PA (UYMO-) UNIV MONTELLIER 2.  
 XX  
 PI Weill M, Fort P, Raymond M, Pasteur N;  
 XX  
 DR WPI; 2004-082482/08.

XX  
 PT New insect acetylcholine esterase, useful in screening for insecticides  
 PT effective against strains resistant to organophosphates and carbamates.  
 XX  
 PS Claim 11; SEQ ID NO 123; 169pp; French.

CC The invention relates to an insect acetylcholine esterase (ace-1) (I)  
 CC with a central catalytic region, given in the specification as ADJ93656,  
 CC or (ii) a sequence 60 % identical or 70 % similar to ADJ93656. Also  
 CC disclosed is a method for detecting insects that carry resistance to  
 CC organophosphorus and carbamate insecticides. The method of the invention  
 CC is useful for the inhibition of acetylcholine esterases that are  
 CC resistant to organophosphorus and carbamate insecticides. Ace-1 and  
 CC transgenic invertebrates that express it, are used to screen for  
 CC insecticides, i.e. inhibitors of ace-1. The nucleic acid that encodes  
 CC (I), also antibodies specific for (I), are used to detect insects,  
 CC particularly mosquito disease vectors but also agricultural pests, that  
 CC are resistant to organophosphorus and carbamate insecticides. Agents that  
 CC inhibit (I) are effective against insect strains resistant to  
 CC organophosphorus and carbamate insecticides. Sequences given in ADJ93657-  
 CC ADJ93784 represent products of the ace-1 gene (cDNA, protein, AChE1) from  
 CC various insects, and also primers for the amplification of ace-1 nucleic  
 CC acids.  
 XX

SQ Sequence 20 BP; 3 A; 5 C; 7 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1595 TGGTGACACCGAGTTC 1611  
 Db 3 TCGTGGACACCGTGTTC 19

RESULT 1617  
 ADJ64147/C  
 ID ADJ64147 standard; DNA; 20 BP.  
 XX  
 AC ADJ64147;  
 XX  
 DT 06-MAY-2004 (first entry)  
 XX  
 DE Human phospholipase D2 target oligonucleotide #4.  
 XX  
 KW Phospholipase D2; hyperproliferative disorder; cancer;  
 KW neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
 KW infection; inflammation; tumour; therapy; human; ss.  
 XX  
 OS Homo sapiens.  
 OS  
 PN US2004005705-A1.  
 XX  
 PD 08-JAN-2004.  
 XX  
 PF 20-JUN-2002; 2002US-00177896.  
 PR 20-JUN-2002; 2002US-00177896.  
 XX  
 XX (ISIS-) ISIS PHARM INC.  
 PA  
 PI Bennett CF, Dobie KW;  
 XX  
 DR WPI; 2004-081729/08.

XX  
 PT New antisense compounds targeted to nucleic acid molecules encoding  
 PT phospholipase D2, useful for treating diseases associated with expression  
 PT of phospholipase D2, e.g. cancer, Alzheimer's disease or Parkinson's  
 PT disease.  
 XX  
 PS Example 15; SEQ ID NO 51; 46pp; English.

XX  
 CC The present invention relates to antisense oligonucleotides which are  
 CC targeted to nucleic acid molecule encoding phospholipase D2 and the  
 CC encoding protein. The invention is useful for inhibiting the expression  
 CC of phospholipase D2 and for treating diseases and conditions associated  
 CC with expression of phospholipase D2 e.g. hyperproliferative disorder such  
 CC as cancer, neurodegenerative disease such as Alzheimer's disease and  
 CC Parkinson's disease. The invention is also useful for therapeutic and  
 CC prophylactic applications to prevent or delay infection, inflammation and  
 CC tumour formation. The present sequence is human phospholipase D2 target  
 CC oligonucleotide.  
 XX  
 SQ Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 210 GCAGATAGGCTGGATG 226  
 Db 20 GCAGATAGGCTGGATG 4

RESULT 1618  
 ADJ64112  
 ID ADJ64112 standard; DNA; 20 BP.  
 XX

ADJ64112;  
06-MAY-2004 (first entry)  
Human phospholipase D2 antisense oligonucleotide ISIS #159040.  
Phospholipase D2; hyperproliferative disorder; cancer;  
neurodegenerative disease; Alzheimer's disease; Parkinson's disease;  
infection; inflammation; tumour; therapy; human; antisense; ss.  
Homo sapiens.  
Synthetic.  
Key Location/Qualifiers  
modified\_base 1..20  
/tag= b  
/mod\_base= OTHER  
/note= "phosphorothioate backbone where all cytidines are  
5'-methylcytidines"  
modified\_base 1..5  
/tag= a  
/mod\_base= OTHER  
/note= "2'- methoxyethyl (2'-MOE) nucleotides"  
modified\_base 15..20  
/tag= c  
/mod\_base= OTHER  
/note= "2'- methoxyethyl (2'-MOE) nucleotides"  
US2004005705-A1.  
08-JAN-2004.  
20-JUN-2002; 2002US-00177896.  
20-JUN-2002; 2002US-00177896.  
(ISIS-) ISIS PHARM INC.  
Bennett CF, Dobie KW;  
WPI; 2004-081729/08.  
New antisense compounds targeted to nucleic acid molecules encoding  
phospholipase D2, useful for treating diseases associated with expression  
of phospholipase D2, e.g. cancer, Alzheimer's disease or Parkinson's  
disease.  
Example 15; SEQ ID NO 16; 46pp; English.  
The present invention relates to antisense oligonucleotides which are  
targeted to nucleic acid molecule encoding phospholipase D2 and the  
encoding protein. The invention is useful for inhibiting the expression  
of phospholipase D2 and for treating diseases and conditions associated  
with expression of phospholipase D2 e.g. hyperproliferative disorder such  
as cancer, neurodegenerative disease such as Alzheimer's disease and  
Parkinson's disease. The invention is also useful for therapeutic and  
prophylactic applications to prevent or delay infection, inflammation and  
tumour formation. The present sequence is human phospholipase D2  
antisense oligonucleotide.  
Sequence 20 BP; 5 A; 3 C; 9 G; 3 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. NO. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
QY 210 GCAGTAGGCTGGATG 226  
|||||  
DB 1 GCAGTAGGCTGGATG 17  
|||||  
RESULT 1619  
ADJ15785/c

ADJ15785 standard; DNA; 20 BP.  
ADJ15785;  
20-MAY-2004 (first entry)  
Antisense DNA oligo used to modulate human LRH1 expression SeqID 335.  
human; ss; liver related homologue-1; LRH1; NR5A2; antisense;  
phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;  
low HDL; high density lipoprotein; high LDL; hypercholesterolaemia;  
gall stone; triglyceridaemia; obesity; hepatitis; antilipaeamic;  
hepatocellular carcinoma; aromatase; cytostatic; litholytic;  
antiarteriosclerotic; anorectic; hepatotropic; litholytic;  
antiinflammatory; virucidal.  
Homo sapiens.  
Synthetic.  
Key Location/Qualifiers  
modified\_base 1..20  
/tag= b  
/mod\_base= OTHER  
/label= OTHER= phosphorothioate backbone  
modified\_base 1..5  
/tag= a  
/mod\_base= OTHER  
/note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
cytidine nucleobases are 5-methylcytidine."  
modified\_base 16..20  
/tag= c  
/mod\_base= OTHER  
/note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
cytidine nucleobases are 5-methylcytidine."  
WO2004003201-A2.  
08-JAN-2004.  
01-JUL-2003; 2003WO-US020865.  
01-JUL-2002; 2002US-0392813P.  
(PHAA ) PHARMACIA CORP.  
Kane CD;  
WPI; 2004-083058/08.  
New antisense oligonucleotides targeted to a nucleic acid encoding liver  
related homologue-1 (LRH1), useful for treating breast cancer,  
dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.  
Example 15; SEQ ID NO 335; 909pp; English.  
This invention relates to novel antisense compounds useful for modulating  
the expression of liver related homologue-1 (LRH1) and splice variants  
thereof. Specifically, it refers to compositions 8-30 nucleobases in  
length that target a portion of an active site on the nucleic acid  
molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan  
nuclear receptor protein that functions as a tissue specific  
transcription factor. The present invention describes antisense  
oligonucleotides that comprise at least one modified internucleoside  
linkage, a phosphorothioate linkage; at least one modified sugar moiety,  
a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-  
methylcytidine. These antisense compounds are useful for treating or  
diagnosing a disease associated with LRH1, such as breast cancer,  
dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high  
LDL (low density lipoprotein), hypercholesterolaemia, gall stones,  
triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic  
hepatitis, as well as hepatocellular carcinoma or a condition associated  
with aromatase activity. Accordingly, these compositions exhibit  
cytostatic, antilipaeamic, antiarteriosclerotic, anorectic, hepatotropic,

CC litholytic, antiinflammatory and virucidal activities. This  
CC oligonucleotide sequence is an antisense DNA oligo used to modulate the  
CC expression of the human LRH1 protein of the invention.  
XX Sequence 20 BP; 1 A; 7 C; 5 G; 7 T; 0 U; 0 Other;  
SQ

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 853 GACAGGACCTGACGA 869  
DB 17 GACAGGCCCTGAAGCA 1

RESULT 1620  
ADJ18518/c

ID ADJ18518 standard; DNA; 20 BP.  
XX  
AC ADJ18518;  
XX  
DT 20-MAY-2004 (first entry)  
XX  
DE Antisense DNA oligo used to modulate human LRH1 expression SeqID 3068.  
XX  
KW human; ss; liver related homologue-1; LRH1; NR5A2; antisense;  
KW phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;  
KW low HDL; high density lipoprotein; high LDL; hypercholesterolaemia;  
KW gall stone; triglyceridaemia; obesity; hepatitis;  
KW hepatocellular carcinoma; aromatase; cytostatic; antilipaeamic;  
KW antiarteriosclerotic; anorectic; hepatotropic; litholytic;  
KW antiinflammatory; virucidal.  
XX  
OS Homo sapiens.  
OS Synthetic.

FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /tag= b  
FT /mod\_base= OTHER  
FT /label= OTHER= phosphorothioate backbone  
FT modified\_base 1..5  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
FT cytidine nucleobases are 5-methylcytidine."  
FT modified\_base 16..20  
FT /tag= c  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
FT cytidine nucleobases are 5-methylcytidine."  
XX  
XX WO2004003201-A2.  
XX  
XX PN  
XX PD 08-JAN-2004.  
XX  
XX PF 01-JUL-2003; 2003WO-US020865.  
XX  
XX PR 01-JUL-2002; 2002US-0392813P.  
XX  
XX PA (PHAA ) PHARMACIA CORP.  
XX  
XX PI Kane CD;  
XX  
XX WPI; 2004-083058/08.  
XX  
XX  
XX New antisense oligonucleotides targeted to a nucleic acid encoding liver  
XX related homologue-1 (LRH1), useful for treating breast cancer,  
XX dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.  
XX  
XX Example 15; SEQ ID NO 3068; 909pp; English.  
XX  
XX This invention relates to novel antisense compounds useful for modulating

CC the expression of liver related homologue-1 (LRH1) and splice variants  
CC thereof. Specifically, it refers to compositions 8-30 nucleobases in  
CC length that target a portion of an active site on the nucleic acid  
CC molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan  
CC nuclear receptor protein that functions as a tissue specific  
CC transcription factor. The present invention describes antisense  
CC oligonucleotides that comprise at least one modified internucleoside  
CC linkage, a phosphorothioate linkage; at least one modified sugar moiety,  
CC a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-  
CC methylycytidine. These antisense compounds are useful for treating or  
CC diagnosing a disease associated with LRH1, such as breast cancer,  
CC dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high  
CC LDL (low density lipoprotein), hypercholesterolaemia, gall stones,  
CC triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic  
CC hepatitis, as well as hepatocellular carcinoma or a condition associated  
CC with aromatase activity. Accordingly, these compositions exhibit  
CC cytostatic, antilipaeamic, antiarteriosclerotic, anorectic, hepatotropic,  
CC litholytic, antiinflammatory and virucidal activities. This  
CC oligonucleotide sequence is an antisense DNA oligo used to modulate the  
CC expression of the human LRH1 protein of the invention.  
XX  
XX Sequence 20 BP; 5 A; 1 C; 8 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1447 AACATCCATCTTCCT 1463  
DB 17 AACATCCACTCTGCT 1

## RESULT 1621

ADJ18799  
ID ADJ18799 standard; DNA; 20 BP.  
XX  
AC ADJ18799;  
XX  
DT 20-MAY-2004 (first entry)  
XX  
DE Antisense DNA oligo used to modulate human LRH1 expression SeqID 3349.  
XX  
KW human; ss; liver related homologue-1; LRH1; NR5A2; antisense;  
KW phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;  
KW low HDL; high density lipoprotein; high LDL; hypercholesterolaemia;  
KW gall stone; triglyceridaemia; obesity; hepatitis;  
KW hepatocellular carcinoma; aromatase; cytostatic; antilipaeamic;  
KW antiarteriosclerotic; anorectic; hepatotropic; litholytic;  
KW antiinflammatory; virucidal.  
XX  
OS Homo sapiens.  
OS Synthetic.

FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /tag= b  
FT /mod\_base= OTHER  
FT /label= OTHER= phosphorothioate backbone  
FT modified\_base 1..5  
FT /tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
FT cytidine nucleobases are 5-methylcytidine."  
FT modified\_base 16..20  
FT /tag= c  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
FT cytidine nucleobases are 5-methylcytidine."  
XX  
XX WO2004003201-A2.  
XX  
XX PD 08-JAN-2004.  
XX

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PF 01-JUL-2003; 2003WO-US020865.
XX
XX
XX 01-JUL-2002; 2002US-0392813P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Kane CD;
XX
XX WPI; 2004-083058/08.
XX
XX New antisense oligonucleotides targeted to a nucleic acid encoding liver
XX related homologue-1 (LRH1), useful for treating breast cancer,
XX dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.
XX
XX Example 15; SEQ ID NO 3349; 909pp; English.
XX
XX This invention relates to novel antisense compounds useful for modulating
XX the expression of liver related homologue-1 (LRH1) and splice variants
XX thereof. Specifically, it refers to compositions 8-30 nucleobases in
XX length that target a portion of an active site on the nucleic acid
XX molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan
XX nuclear receptor protein that functions as a tissue specific
XX transcription factor. The present invention describes antisense
XX oligonucleotides that comprise at least one modified internucleoside
XX linkage, a phosphorothioate linkage; at least one modified sugar moiety,
XX methylcytidine. These antisense compounds are useful for treating or
XX diagnosing a disease associated with LRH1, such as breast cancer,
XX dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high
XX LDL (low density lipoprotein), hypercholesterolaemia, gall stones,
XX triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic
XX hepatitis, as well as hepatocellular carcinoma or a condition associated
XX with aromatase activity. Accordingly, these compositions exhibit
XX cytosstatic, antilipaeamic, antiarteriosclerotic, anorectic, hepatotropic,
XX litholytic, antiinflammatory and virucidal activities. This
XX oligonucleotide sequence is an antisense DNA oligo used to modulate the
XX expression of the human LRH1 protein of the invention.
XX
XX Sequence 20 BP; 8 A; 5 C; 4 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 20;
XX Best Local Similarity 88.2%; Pred. No. 1e+03;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 1607 AGTTCTAAGCCACAGAC 1623
XX ||||| |||||
XX 1 AGGCTTAAGACACAGAC 17
XX
XX RESULT 1622
XX ADJ15666/c
XX ID ADJ15666 standard; DNA; 20 BP.
XX
XX AC ADJ15666;
XX
XX XX
XX 20-MAY-2004 (first entry)
XX
XX Antisense DNA oligo used to modulate human LRH1 expression SeqID 216.
XX
XX human; ss; liver related homologue-1; LRH1; NR5A2; antisense;
XX phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;
XX low HDL; high density lipoprotein; high LDL; hypercholesterolaemia;
XX gall stone; triglyceridaemia; obesity; hepatitis;
XX hepatocellular carcinoma; aromatase; cytosstatic; antilipaeamic;
XX antiarteriosclerotic; anorectic; hepatotropic; litholytic;
XX antiinflammatory; virucidal.
XX
XX Homo sapiens.
XX OS Synthetic.
XX
XX Key Location/Qualifiers
XX modified_base 1..20
XX /*tag= b
XX

```

```

FT /mod_base= OTHER
FT /label= OTHER= phosphorothioate backbone
FT modified_base 1..5
FT /*tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All
FT cytidine nucleobases are 5-methylcytidine."
FT modified_base 16..20
FT /*tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All
FT cytidine nucleobases are 5-methylcytidine."
XX WO2004003201-A2.
XX
XX 08-JAN-2004.
XX
XX 01-JUL-2003; 2003WO-US020865.
XX
XX 01-JUL-2002; 2002US-0392813P.
XX
XX (PHAA ) PHARMACIA CORP.
XX
XX Kane CD;
XX
XX WPI; 2004-083058/08.
XX
XX New antisense oligonucleotides targeted to a nucleic acid encoding liver
XX related homologue-1 (LRH1), useful for treating breast cancer,
XX dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.
XX
XX Example 15; SEQ ID NO 216; 909pp; English.
XX
XX This invention relates to novel antisense compounds useful for modulating
XX the expression of liver related homologue-1 (LRH1) and splice variants
XX thereof. Specifically, it refers to compositions 8-30 nucleobases in
XX length that target a portion of an active site on the nucleic acid
XX molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan
XX nuclear receptor protein that functions as a tissue specific
XX transcription factor. The present invention describes antisense
XX oligonucleotides that comprise at least one modified internucleoside
XX linkage, a phosphorothioate linkage; at least one modified sugar moiety,
XX methylcytidine. These antisense compounds are useful for treating or
XX diagnosing a disease associated with LRH1, such as breast cancer,
XX dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high
XX LDL (low density lipoprotein), hypercholesterolaemia, gall stones,
XX triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic
XX hepatitis, as well as hepatocellular carcinoma or a condition associated
XX with aromatase activity. Accordingly, these compositions exhibit
XX cytosstatic, antilipaeamic, antiarteriosclerotic, anorectic, hepatotropic,
XX litholytic, antiinflammatory and virucidal activities. This
XX oligonucleotide sequence is an antisense DNA oligo used to modulate the
XX expression of the human LRH1 protein of the invention.
XX
XX Sequence 20 BP; 1 A; 6 C; 6 G; 7 T; 0 U; 0 Other;
XX
XX Query Match 0.8%; Score 13.8; DB 1; Length 20;
XX Best Local Similarity 88.2%; Pred. No. 1e+03;
XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
XX
XX QY 853 GACAAGGAGCCTGAAGCA 869
XX ||||| |||||
XX 20 GACAGGCGCTGAAGCA 4
XX
XX RESULT 1623
XX ADJ18672
XX ID ADJ18672 standard; DNA; 20 BP.
XX
XX AC ADJ18672;
XX
XX XX
XX 20-MAY-2004 (first entry)
XX

```



XX Antisense DNA oligo used to modulate human LRH1 expression SeqID 3222.  
XX human; ss; liver related homologue-1; LRH1; NR5A2; antisense;  
XX phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;  
KW low HDL; high density lipoprotein; high LDL; hypercholesterolaemia;  
KW gall stone; triglyceridaemia; obesity; hepatitis;  
KW hepatocellular carcinoma; aromatase; cytostatic; antilipaemic;  
KW antiarteriosclerotic; anorectic; hepatotropic; litholytic;  
KW antiinflammatory; virucidal.  
XX Homo sapiens.  
OS Synthetic.  
OS  
FH Key Location/Qualifiers  
FT modified\_base 1. .20 /\*tag= b  
FT /mod\_base= OTHER  
FT /label= OTHER= phosphorothioate backbone  
FT modified\_base 1. .5 /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
FT cytidine nucleobases are 5-methylcytidine."  
FT modified\_base 16. .20 /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
FT cytidine nucleobases are 5-methylcytidine."  
PN WO2004003201-A2.  
XX  
PD 08-JAN-2004.  
XX  
PF 01-JUL-2003; 2003WO-US020865.  
XX  
PR 01-JUL-2002; 2002US-0392813P.  
XX (PHAA ) PHARMACIA CORP.  
XX Kane CD;  
XX WPI; 2004-083058/08.  
XX  
XX New antisense oligonucleotides targeted to a nucleic acid encoding liver  
XX related homologue-1 (LRH1), useful for treating breast cancer,  
XX dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.  
XX Example 15; SEQ ID NO 3222; 909pp; English.  
XX  
XX This invention relates to novel antisense compounds useful for modulating  
XX the expression of liver related homologue-1 (LRH1) and splice variants  
XX thereof. Specifically, it refers to compositions 8-30 nucleobases in  
XX length that target a portion of an active site on the nucleic acid  
XX molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan  
XX nuclear receptor protein that functions as a tissue specific  
XX transcription factor. The present invention describes antisense  
XX oligonucleotides that comprise at least one modified internucleoside  
XX linkage, a phosphorothioate linkage; at least one modified sugar moiety,  
XX a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-  
XX methylcytidine. These antisense compounds are useful for treating or  
XX diagnosing a disease associated with LRH1, such as breast cancer,  
XX dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high  
XX LDL (low density lipoprotein), hypercholesterolaemia, gall stones,  
XX triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic  
XX hepatitis, as well as hepatocellular carcinoma or a condition associated  
XX with aromatase activity. Accordingly, these compositions exhibit  
XX cytostatic, antilipaemic, antiarteriosclerotic, anorectic, hepatotropic,  
XX litholytic, antiinflammatory and virucidal activities. This  
XX oligonucleotide sequence is an antisense DNA oligo used to modulate the  
XX expression of the human LRH1 protein of the invention.  
XX Sequence 20 BP; 7 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 0; Gaps 0;  
QY 1607 AGTTCTAAGCCACAGAC 1623  
DB 4 AGGTC TAAGACACAGAC 20  
RESULT 1624  
ADJ18843  
ID ADJ18843 standard; DNA; 20 BP.  
XX  
AC ADJ18843;  
XX  
XX 20-MAY-2004 (first entry)  
XX  
DE Antisense DNA oligo used to modulate human LRH1 expression SeqID 3393.  
XX human; ss; liver related homologue-1; LRH1; NR5A2; antisense;  
KW phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;  
KW low HDL; high density lipoprotein; high LDL; hypercholesterolaemia;  
KW gall stone; triglyceridaemia; obesity; hepatitis; antilipaemic;  
KW hepatocellular carcinoma; aromatase; cytostatic; litholytic;  
KW antiarteriosclerotic; anorectic; hepatotropic; litholytic;  
KW antiinflammatory; virucidal.  
XX Homo sapiens.  
OS Synthetic.  
OS  
FH Key Location/Qualifiers  
FT modified\_base 1. .20 /\*tag= b  
FT /mod\_base= OTHER  
FT /label= OTHER= phosphorothioate backbone  
FT modified\_base 1. .5 /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
FT cytidine nucleobases are 5-methylcytidine."  
FT modified\_base 16. .20 /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
FT cytidine nucleobases are 5-methylcytidine."  
PN WO2004003201-A2.  
XX  
PD 08-JAN-2004.  
XX  
PF 01-JUL-2003; 2003WO-US020865.  
XX  
PR 01-JUL-2002; 2002US-0392813P.  
XX (PHAA ) PHARMACIA CORP.  
XX Kane CD;  
XX WPI; 2004-083058/08.  
XX  
XX New antisense oligonucleotides targeted to a nucleic acid encoding liver  
XX related homologue-1 (LRH1), useful for treating breast cancer,  
XX dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.  
XX Example 15; SEQ ID NO 3393; 909pp; English.  
XX  
XX This invention relates to novel antisense compounds useful for modulating  
XX the expression of liver related homologue-1 (LRH1) and splice variants  
XX thereof. Specifically, it refers to compositions 8-30 nucleobases in  
XX length that target a portion of an active site on the nucleic acid  
XX molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan  
XX nuclear receptor protein that functions as a tissue specific

XX Kane CD;  
PI WP1; 2004-083058/08.  
XX  
XX New antisense oligonucleotides targeted to a nucleic acid encoding liver  
PT related homologue-1 (LRH1), useful for treating breast cancer,  
PT dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.  
XX  
XX Example 15; SEQ ID NO 303; 909pp; English.  
XX  
XX This invention relates to novel antisense compounds useful for modulating  
XX the expression of liver related homologue-1 (LRH1) and splice variants  
CC thereof. Specifically, it refers to compositions 8-30 nucleobases in  
CC length that target a portion of an active site on the nucleic acid  
CC molecule encoding LRH1 (also known as NR3A2). LRH1 is a monomeric orphan  
CC nuclear receptor protein that functions as a tissue specific  
CC transcription factor. The present invention describes antisense  
CC oligonucleotides that comprise at least one modified internucleoside  
CC linkage, a phosphorothioate linkage; at least one modified sugar moiety,  
CC a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-  
CC methylcytidine. These antisense compounds are useful for treating or  
CC diagnosing a disease associated with LRH1, such as breast cancer,  
CC dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high  
CC LDL (low density lipoprotein), hypercholesterolaemia, gall stones,  
CC triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic  
CC hepatitis, as well as hepatocellular carcinoma or a condition associated  
CC with aromatase activity. Accordingly, these compositions exhibit  
CC cytostatic, antilipaeamic, antiarteriosclerotic, anorectic, hepatotropic,  
CC litholytic, antiinflammatory and virucidal activities. This  
CC oligonucleotide sequence is an antisense DNA oligo used to modulate the  
XX expression of the human LRH1 protein of the invention.  
XX  
XX Sequence 20 BP; 1 A; 7 C; 5 G; 7 T; 0 U; 0 Other;

Query Match            0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03; Indels 0; Gaps 0;  
Matches 15; Conservative 0; Mismatches 2

QY 853 GACAAGGACCTGAAGCA 869  
    ||||| |||||||  
Db 18 GACAGGCCCTGAAGCA 2

RESULT 1626  
ADJ18877  
ID ADJ18877 standard; DNA; 20 BP.  
AC ADJ18877;  
XX  
XX 20-MAY-2004 (first entry)  
XX Antisense DNA oligo used to modulate human LRH1 expression SeqID 3427.

XX human; ss; liver related homologue-1; LRH1; NR5A2; antisense;  
XX phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;  
KW low HDL; high density lipoprotein; high LDL; hypercholesterolaemia;  
KW gall stone; triglyceridaemia; obesity; hepatitis;  
KW hepatocellular carcinoma; aromatase; cytosstatic; antilipaeamic;  
KW antiarteriosclerotic; anorectic; hepatotropic; litholytic;  
KW antiinflammatory; virucidal.

XX Homo sapiens.  
OS Synthetic.  
OS  
XX Key Location/Qualifiers  
FH modified\_base 1..20 /tag= b  
FT /mod\_base= OTHER  
FT /label= OTHER= phosphorothioate backbone  
FT modified\_base 1..5 /tag= a  
FT /mod\_base= OTHER  
FT

```

FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All
FT cytidine nucleobases are 5-methylcytidine."
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All
FT cytidine nucleobases are 5-methylcytidine."
FT
XX
PN WO2004003201-A2.
XX
PD 08-JAN-2004.
XX
PF 01-JUL-2003; 2003WO-US020865.
XX
PR 01-JUL-2002; 2002US-0392813P.
XX
PA (PHAA ) PHARMACIA CORP.
XX
PI Kane CD;
XX
XX WPI; 2004-083058/08.
XX
DR New antisense oligonucleotides targeted to a nucleic acid encoding liver
PT related homologue-1 (LRH1), useful for treating breast cancer,
PT dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.
XX
PS Example 15; SEQ ID NO 3427; 909pp; English.
XX
CC This invention relates to novel antisense compounds useful for modulating
CC the expression of liver related homologue-1 (LRH1) and splice variants
CC thereof. Specifically, it refers to compositions 8-30 nucleobases in
CC length that target a portion of an active site on the nucleic acid
CC molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan
CC nuclear receptor protein that functions as a tissue specific
CC transcription factor. The present invention describes antisense
CC oligonucleotides that comprise at least one modified internucleoside
CC linkage, a phosphorothioate linkage; at least one modified sugar moiety,
CC a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-
CC methylcytidine. These antisense compounds are useful for treating or
CC diagnosing a disease associated with LRH1, such as breast cancer,
CC dyslipidemia, atherosclerosis, low HDL (high density lipoprotein), high
CC LDL (low density lipoprotein), hypercholesterolemia, gall stones,
CC triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic
CC hepatitis, as well as hepatocellular carcinoma or a condition associated
CC with aromatase activity. Accordingly, these compositions exhibit
CC cytostatic, antilipemic, antiarteriosclerotic, anorectic, hepatotropic,
CC litholytic, antiinflammatory and virucidal activities. This
CC oligonucleotide sequence is an antisense DNA oligo used to modulate the
CC expression of the human LRH1 protein of the invention.
XX
SQ Sequence 20 BP; 8 A; 5 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1607 AGTTCTAAGCCACAGAC 1623
Db 3 AGGCTAAGACACAGAC 19

RESULT 1627
ADJ17468/c
ID ADJ17468 standard; DNA; 20 BP.
XX
AC ADJ17468;
XX
XX 20-MAY-2004 (first entry)
XX
XX Antisense DNA oligo used to modulate human LRH1 expression SeqID 2018.
XX
XX human; ss; liver related homologue-1; LRH1; NR5A2; antisense;
KW phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;

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KW low HDL; high density lipoprotein; high LDL; hypercholesterolemia;
KW gall stone; triglyceridaemia; obesity; hepatitis;
KW hepatocellular carcinoma; aromatase; cytotatic; antilipemic;
KW antiarteriosclerotic; anorectic; hepatotropic; litholytic;
KW antiinflammatory; virucidal.
XX
OS Homo sapiens.
OS Synthetic.
XX
FH Key Location/Qualifiers
FT modified_base 1..20
FT /tag= b
FT /mod_base= OTHER
FT /label= OTHER= phosphorothioate backbone
FT modified_base 1..5
FT /tag= a
FT /mod_base= OTHER
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All
FT cytidine nucleobases are 5-methylcytidine."
FT modified_base 16..20
FT /tag= c
FT /mod_base= OTHER
FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All
FT cytidine nucleobases are 5-methylcytidine."
XX
PN WO2004003201-A2.
XX
PD 08-JAN-2004.
XX
PF 01-JUL-2003; 2003WO-US020865.
XX
PR 01-JUL-2002; 2002US-0392813P.
XX
PA (PHAA ) PHARMACIA CORP.
XX
PI Kane CD;
XX
XX WPI; 2004-083058/08.
XX
DR New antisense oligonucleotides targeted to a nucleic acid encoding liver
PT related homologue-1 (LRH1), useful for treating breast cancer,
PT dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.
XX
PS Example 15; SEQ ID NO 2018; 909pp; English.
XX
CC This invention relates to novel antisense compounds useful for modulating
CC the expression of liver related homologue-1 (LRH1) and splice variants
CC thereof. Specifically, it refers to compositions 8-30 nucleobases in
CC length that target a portion of an active site on the nucleic acid
CC molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan
CC nuclear receptor protein that functions as a tissue specific
CC transcription factor. The present invention describes antisense
CC oligonucleotides that comprise at least one modified internucleoside
CC linkage, a phosphorothioate linkage; at least one modified sugar moiety,
CC a 2'-O-methoxyethyl (2' MOE) and at least one modified internucleoside
CC linkage, a phosphorothioate linkage; at least one modified sugar moiety,
CC a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-
CC methylcytidine. These antisense compounds are useful for treating or
CC diagnosing a disease associated with LRH1, such as breast cancer,
CC dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high
CC LDL (low density lipoprotein), hypercholesterolemia, gall stones,
CC triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic
CC hepatitis, as well as hepatocellular carcinoma or a condition associated
CC with aromatase activity. Accordingly, these compositions exhibit
CC cytostatic, antilipemic, antiarteriosclerotic, anorectic, hepatotropic,
CC litholytic, antiinflammatory and virucidal activities. This
CC oligonucleotide sequence is an antisense DNA oligo used to modulate the
CC expression of the human LRH1 protein of the invention.
XX
SQ Sequence 20 BP; 4 A; 1 C; 9 G; 6 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;
Best Local Similarity 88.2%; Pred. No. 1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY 1448 AACATCCATTCTCTC 1464  
 |||||  
 Db 20 AACATCCACTCGCTC 4

RESULT 1628  
 ADJ15597/c  
 ID ADJ15597 standard; DNA; 20 BP.  
 XX AC  
 XX ADJ15597;  
 XX  
 DT 20-MAY-2004 (first entry)  
 XX  
 DE Antisense DNA oligo used to modulate human LRH1 expression SeqID 147.  
 XX  
 KW human; ss; liver related homologue-1; LRH1; NR5A2; antisense;  
 KW phosphorothioate; 2' MOE; breast cancer; dyslipidaemia; atherosclerosis;  
 KW low HDL; high density lipoprotein; high LDL; hypercholesterolaemia;  
 KW gall stone; triglyceridaemia; obesity; hepatitis;  
 KW hepatocellular carcinoma; aromatase; cytostatic; antilipaeamic;  
 KW antiarteriosclerotic; anorectic; hepatotropic; litholytic;  
 KW antiinflammatory; virucidal.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.

XX Key Location/Qualifiers  
 XX modified\_base 1..20  
 XX /tag= b  
 XX /mod\_base= OTHER  
 XX /label= OTHER= phosphorothioate backbone  
 FT  
 FT modified\_base 1..5  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
 FT cytidine nucleobases are 5-methylcytidine."  
 FT  
 FT modified\_base 16..20  
 FT /tag= c  
 FT /mod\_base= OTHER  
 FT /note= "OTHER= 2' methoxyethyl (2' MOE) nucleotides. All  
 FT cytidine nucleobases are 5-methylcytidine."  
 FT  
 FT  
 PN WC2004003201-A2.  
 XX  
 XX 08-JAN-2004.  
 XX  
 XX 01-JUL-2003; 2003WO-US020865.  
 XX  
 XX 01-JUL-2002; 2002US-0392813P.  
 XX  
 XX (PHAA ) PHARMACIA CORP.  
 XX  
 XX Kane CD;  
 XX  
 XX WPI; 2004-083058/08.  
 XX  
 XX New antisense oligonucleotides targeted to a nucleic acid encoding liver  
 XX related homologue-1 (LRH1), useful for treating breast cancer,  
 XX dyslipidemia, atherosclerosis, hypercholesterolemia, or hepatitis.  
 XX  
 XX Example 15; SEQ ID NO 147; 909pp; English.

XX This invention relates to novel antisense compounds useful for modulating  
 XX the expression of liver related homologue-1 (LRH1) and splice variants  
 XX thereof. Specifically, it refers to compositions 8-30 nucleobases in  
 XX length that target a portion of an active site on the nucleic acid  
 XX molecule encoding LRH1 (also known as NR5A2). LRH1 is a monomeric orphan  
 XX nuclear receptor protein that functions as a tissue specific  
 XX transcription factor. The present invention describes antisense  
 XX oligonucleotides that comprise at least one modified internucleoside  
 XX linkage, a phosphorothioate linkage; at least one modified sugar moiety,  
 XX a 2'-O-methoxyethyl (2' MOE) and at least one modified nucleobase, a 5-  
 XX methylcytidine. These antisense compounds are useful for treating or

CC diagnosing a disease associated with LRH1, such as breast cancer,  
 CC dyslipidaemia, atherosclerosis, low HDL (high density lipoprotein), high  
 CC LDL (low density lipoprotein), hypercholesterolaemia, gall stones,  
 CC triglyceridaemia, obesity, hepatitis B virus-mediated acute or chronic  
 CC hepatitis, as well as hepatocellular carcinoma or a condition associated  
 CC with aromatase activity. Accordingly, these compositions exhibit  
 CC cytostatic, antilipaeamic, antiarteriosclerotic, anorectic, hepatotropic,  
 CC litholytic, antiinflammatory and virucidal activities. This  
 CC oligonucleotide sequence is an antisense DNA oligo used to modulate the  
 CC expression of the human LRH1 protein of the invention.  
 XX  
 XX Sequence 20 BP; 1 A; 6 C; 6 G; 7 T; 0 U; 0 Other;  
 SQ

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 853 GACAGGACCTCGAAGCA 869  
 |||||  
 Db 19 GACAGGCGCCTGAAGCA 3

RESULT 1629  
 ADK12315/c  
 ID ADK12315 standard; DNA; 20 BP.  
 XX AC  
 XX ADK12315;  
 XX  
 DT 20-MAY-2004 (first entry)  
 XX  
 DE Mouse complement component C3 DNA, antisense oligonucleotide #61.  
 XX  
 KW Antisense therapy; mouse; complement component C3; autoimmune disorder;  
 KW multiple sclerosis; infection; atherosclerosis; neuroprotective;  
 KW antiarteriosclerotic; antimicrobial; antiinflammatory; cytostatic;  
 KW phosphorothioate; ss.  
 XX  
 OS Mus musculus.

XX Key Location/Qualifiers  
 XX modified\_base 1..20  
 XX /tag= a  
 XX /mod\_base= OTHER  
 XX /note= "This oligonucleotide has a phosphorothioate  
 XX backbone and 2'-methoxyethyl (2'-MOE) wings at the 5'  
 XX and 3' ends, which are 5 nucleotides in length at each  
 XX end. All cytidine residues are 5-methylcytidines"  
 XX  
 XX US2004043956-A1.  
 XX  
 XX 04-MAR-2004.  
 XX  
 XX 18-AUG-2003; 2003US-00642802.  
 XX  
 XX 23-OCT-2001; 2001US-00001076.  
 XX  
 XX (GRAH/) GRAHAM M J.  
 XX (WATT/) WATT A T.  
 XX  
 XX Graham MJ, Watt AT;  
 XX WPI; 2004-225730/21.  
 XX  
 XX New antisense compound targeted to a nucleic acid molecule encoding  
 XX complement component C3, useful for treating multiple sclerosis, an  
 XX infection or atherosclerosis.  
 XX  
 XX Example 16; SEQ ID NO 173; 74pp; English.

XX The present invention relates to antisense compounds targeted to a  
 XX nucleic acids encoding human and mouse complement component C3. The  
 XX antisense compound comprises an antisense oligonucleotide that  
 XX specifically hybridises with the nucleic acid and inhibits the expression

CC of complement component C3 in cells. The antisense oligonucleotide is a  
 CC chimeric oligonucleotide. The antisense oligonucleotide comprises at  
 CC least one modified internucleoside linkage, preferably a phosphorothioate  
 CC linkage. It also comprises at least one modified sugar moiety, preferably  
 CC a 2'-O-methoxyethyl (2'-MOE) sugar moiety. The antisense oligonucleotide  
 CC further comprises at least one modified nucleobase, preferably a 5-  
 CC methylcytosine. The antisense oligonucleotides are useful for the  
 CC treatment of diseases such as autoimmune disorders e.g. multiple  
 CC sclerosis, infections, and atherosclerosis. The present sequence  
 CC represents an antisense oligonucleotide used in the examples of the  
 CC present invention.

SQ Sequence 20 BP; 3 A; 9 C; 3 G; 5 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 391 TCGATGAGGTGCAGTC 407  
 DB 20 TCAGATGAGGTGCAGGC 4

RESULT 1630  
 ADJ26672  
 ID ADJ26672 standard; DNA; 20 BP.  
 XX  
 AC ADJ26672;  
 XX  
 DT 20-MAY-2004 (first entry)  
 XX  
 DE Candida tropicalis CYP gene PCR primer #43.  
 XX  
 KW CYP gene; CPRA protein; CPRA protein; dicarboxylic acid; plastic;  
 KW adhesive; fragrance; PCR; primer; ss.  
 XX  
 OS Candida tropicalis.  
 XX  
 FN US2003186411-A1.  
 XX  
 PD 02-OCT-2003.  
 XX  
 PF 03-APR-2003; 2003US-00405660.  
 XX  
 PR 01-MAY-1998; 98US-0083798P.  
 PR 05-OCT-1998; 98US-0103099P.  
 PR 10-MAR-1999; 99US-0123555P.  
 PR 30-APR-1999; 99US-00302620.  
 PR 12-OCT-2001; 2001US-00976800.  
 XX  
 PA (WILSON) WILSON C R.  
 PA (CRAFT) CRAFT D L.  
 PA (EIRICH) EIRICH L D.  
 PA (ESHO) ESHOO M.  
 PA (MADDURI) MADDURI K M.  
 PA (CORN) CORNETT C A.  
 PA (BRENNER) BRENNER A A.  
 PA (TANG) TANG M.  
 PA (LOPE) LOPE J C.  
 PA (GLEESON) GLEESON M.  
 XX  
 PI Wilson CR, Craft DL, Eirich LD, Eshoo M, Madduri KM, Cornett CA;  
 PI Brenner AA, Tang M, Loper JC, Gleeson M;  
 XX  
 DR WPI; 2004-088917/09.  
 XX  
 PT New isolated nucleic acid encoding a CPRA protein, used to increase  
 PT production of dicarboxylic acid, for use in chemical products including  
 PT plastics, adhesives, and fragrances.  
 XX  
 PS Example 11; SEQ ID NO 47; 195pp; English.  
 XX  
 CC The invention comprises CYP genes from Candida tropicalis which encode

CC CPRA and CPRB proteins. The invention is useful for CPRA and CPRB protein  
 CC production, the DNA and protein sequences are useful for increasing  
 CC production of dicarboxylic acid in chemical products, such as: plastics,  
 CC adhesives and fragrances. The present DNA sequence represents a PCR  
 CC primer that was used in an example of the invention.

SQ Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1010 AGAGGGGAGGCTCAAG 1026  
 DB 2 AGAGGGGAGGCTCAAG 18

RESULT 1631  
 ADL81342/c  
 ID ADL81342 standard; DNA; 20 BP.  
 XX  
 AC ADL81342;  
 XX  
 DT 20-MAY-2004 (first entry)  
 XX  
 DE Gene 216 SSCP primer #92.  
 XX  
 KW asthma; bronchial hyperresponsiveness; obesity;  
 KW inflammatory bowel disease; human; gene 216; ss; primer.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2004023215-A1.  
 XX  
 PD 05-FEB-2004.  
 XX  
 PF 19-APR-2002; 2002US-00126022.  
 XX  
 PR 13-APR-1999; 99US-0129391P.  
 PR 13-APR-2000; 2000US-00548797.  
 PR 13-APR-2001; 2001US-00834597.  
 XX  
 PA (KEITH) KEITH T.  
 PA (LITT) LITTLE R D.  
 PA (EERDE) EERDEWEH P V.  
 PA (DUPUIS) DUPUIS J.  
 PA (DMAS) DEL MASTRO R G.  
 PA (SIMO) SIMON J.  
 PA (ALLEN) ALLEN K.  
 PA (PANDIT) PANDIT S.  
 XX  
 PI Keith T, Little RD, Berdewegh PV, Dupuis J, Del Mastro RG;  
 PI Simon J, Allen K, Pandit S;  
 XX  
 DR WPI; 2004-142647/14.  
 XX  
 PT New isolated nucleic acid molecules useful for diagnosing or treating  
 PT asthma or bronchial hyperresponsiveness, or other diseases such as  
 PT obesity or inflammatory bowel disease.  
 XX  
 PS Example 10; SEQ ID NO 154; 485pp; English.  
 XX  
 CC The invention relates to an isolated nucleic acid molecule, or a set of  
 CC nucleic acid molecules each given in the specification. The composition  
 CC and methods are useful in diagnosing or treating asthma or bronchial  
 CC hyperresponsiveness, and other diseases such as obesity or inflammatory  
 CC bowel disease. The present sequence is used in the exemplification of the  
 CC present invention.

SQ Sequence 20 BP; 4 A; 4 C; 7 G; 5 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches	15;	Conservative	0;	Mismatches	2;	Indels	0;	Gaps	0;
Qy	538	CCCATCTTTGACAGCC	554						
Db	19	CCCTTCTGTGACAGCC	3						
RESULT 1632									
ID	ADL81282								
XX	ADL81282 standard; DNA; 20 BP.								
AC	ADL81282;								
XX	20-MAY-2004 (first entry)								
DT	Gene 216 SSCP primer #32.								
XX	asthma; bronchial hyperresponsiveness; obesity;								
XX	inflammatory bowel disease; human; gene 216; ss; primer.								
KW	Homo sapiens.								
OS	US2004023215-A1.								
XX	05-FEB-2004.								
XX	19-APR-2002; 2002US-00126022.								
XX	13-APR-1999; 99US-0129391P.								
PR	13-APR-2000; 2000US-00548797.								
PR	13-APR-2001; 2001US-00834597.								
XX	(KEIT/) KEITH T.								
PA	(LITT/) LITTLE R D.								
PA	(EERD/) EERDEWEH P V.								
PA	(DUPU/) DUPUIS J.								
PA	(DMAS/) DEL MASTRO R G.								
PA	(SIMO/) SIMON J.								
PA	(ALLE/) ALLEN K.								
PA	(PAND/) PANDIT S.								
XX	Keith T, Little RD, Eerdewegh PV, Dupuis J, Del Mastro RG;								
PI	Simon J, Allen K, Pandit S;								
XX	WPI; 2004-142647/14.								
XX	New isolated nucleic acid molecules useful for diagnosing or treating								
PT	asthma or bronchial hyperresponsiveness, or other diseases such as								
PT	obesity or inflammatory bowel disease.								
XX	Example 10; SEQ ID NO 94; 485pp; English.								
PS	The invention relates to an isolated nucleic acid molecule, or a set of								
CC	nucleic acid molecules each given in the specification. The composition								
CC	and methods are useful in diagnosing or treating asthma or bronchial								
CC	hyperresponsiveness, and other diseases such as obesity or inflammatory								
CC	bowel disease. The present sequence is used in the exemplification of the								
CC	present invention.								
XX	Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;								
SQ	Query Match 0.8%; Score 13.8; DB 1; Length 20;								
	Best Local Similarity 88.2%; Pred. No. 1e+03; Mismatches 0; Indels 0; Gaps 0;								
Matches	15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;								
Qy	538	CCCATCTTTGACAGCC	554						
Db	2	CCCTTCTGTGACAGCC	18						
RESULT 1633									
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ID	ADL32383 standard; DNA; 20 BP.								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
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KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
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XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
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KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								
KW	neurodegenerative disorder; Alzheimer's disease; Parkinson's disease;								
KW	multiple sclerosis; diabetes; obesity; bronchial asthma;								
KW	acquired immunodeficiency syndrome; AIDS; Crohn's disease;								
XX	ADL32383;								
XX	20-MAY-2004 (first entry)								
DT	Human NOVX PCR primer #24.								
XX	Human; NOVX; PCR; ss; congenital heart defect; cardiomyopathy;								
KW	atherosclerosis; hypertension; pulmonary stenosis; scleroderma;								
KW	adenocarcinoma; haemophilia; graft-versus-host disease; cancer;								

KW infectious disease; anorexia; immune disorder; primer.

OS Homo sapiens.

XX US2004067882-A1.

XX 08-APR-2004.

XX 05-NOV-2002; 2002US-00287971.

XX 22-OCT-2001; 2001US-00035568.

XX 05-NOV-2001; 2001US-0338626P.

XX 06-NOV-2001; 2001US-0333072P.

XX 09-NOV-2001; 2001US-0345398P.

XX 09-NOV-2001; 2001US-0348283P.

XX 15-NOV-2001; 2001US-0335610P.

XX 21-NOV-2001; 2001US-0332152P.

XX 28-NOV-2001; 2001US-0333912P.

XX 29-NOV-2001; 2001US-0099742S.

XX 29-NOV-2001; 2001US-0334300P.

XX 04-DEC-2001; 2001US-0336576P.

XX 05-FEB-2002; 2002US-0354807P.

XX 15-MAY-2002; 2002US-0380968P.

XX 16-MAY-2002; 2002US-0381043P.

XX 02-JUL-2002; 2002US-0393148P.

XX 02-JUL-2002; 2002US-0393262P.

XX 06-AUG-2002; 2002US-0401479P.

XX 06-AUG-2002; 2002US-0401626P.

XX 07-AUG-2002; 2002US-0401593P.

XX 07-AUG-2002; 2002US-0401695P.

XX 26-AUG-2002; 2002US-0406181P.

PA (ALSO/) ALSBROOK J P.

PA (ALVA/) ALVAREZ E.

PA (ANDE/) ANDERSON D W.

PA (BARO/) BARON M.

PA (BOLD/) BOLDG F L.

PA (BURG/) BURGESS C E.

PA (CASM/) CASMAN S J.

PA (CHAP/) CHAPOVAL A.

PA (DHAN/) DHANABAL M.

PA (EDIN/) EDINGER S R.

PA (EISE/) EISEN A.

PA (ELLE/) ELLERMAN K.

PA (ETIE/) ETENBERG S.

PA (GANG/) GANGOLLI E A.

PA (GERL/) GERLACH V.

PA (GORM/) GORMAN L.

PA (GROS/) GROSSE W M.

PA (GUOX/) GUO X.

PA (HACK/) HACKETT C.

PA (JIWU/) JI W.

PA (KEKU/) KEKUDA R.

PA (KHRA/) KHRAMTSOV N V.

PA (LEPL/) LEPLEY D M.

PA (LILL/) LI L.

PA (MACD/) MACDOUGALL J R.

PA (MALY/) MALYANKAR U M.

PA (MAZU/) MAZUR A.

PA (MCQU/) MCQUEENEY K.

PA (MEZE/) MEZES P S.

PA (MILL/) MILLER C E.

PA (MILL/) MILLET I.

PA (MISH/) MISHRA V.

PA (PADI/) PADIGARU M.

PA (PENA/) PENA C E A.

PA (PEYM/) PEYMAN J A.

PA (RASH/) RASTELLI L.

PA (RIEG/) RIEGER D K.

PA (ROTH/) ROTHENBERG M E.

PA (SHEN/) SHENOY S G.

PA (SHIM/) SHIMKETS R A.

PA (SMIT/) SMITHSON G.

PA (SPAD/) SPADERNA S K.

PA (STAR/) STARLING G.

PA (SPYT/) SPYTEK K A.

PA (STON/) STONE D J.

PA (TCHE/) TCHERNEV V T.

PA (TWOI/) TWOLOW N.

PA (VERN/) VERNET C A M.

PA (ZERN/) ZERHUSEN B D.

PA (VOSS/) VOSS E Z.

PA (ZHON/) ZHONG M.

XX

PI Alsobrook JP, Alvarez E, Anderson DW, Baron M, Boldog FL;

PI Burgess CE, Casman SU, Chapoval A, Dhanabal M, Edinger SR, Eisen A;

PI Ellerman K, Ettenberg S, Gangolli EA, Gerlach V, Gorman L;

PI Grose WM, Guo X, Hackett C, Ji W, Kekuda R, Khrantsov NV;

PI Lepley DM, Li L, Macdougall JR, Malyankar UM, Mazur A, Mcqueeney K;

PI Mezes PS, Miller CE, Millet I, Mishra V, Padigar M, Patturajan M;

PI Pena CEA, Peyman JA, Rastelli L, Rieger DK, Rothenberg ME;

PI Shenoy SG, Shimkets RA, Smithson G, Spaderna SK, Starling G;

PI Spytek KA, Stone DJ, Tchernev VT, Twomlow N, Vernet CM;

PI Zerhusen BD, Voss EZ, Zhong M;

XX WPI; 2004-355303/33.

DR

XX

XX

PT Novel isolated NOVX polypeptide useful treating or preventing disorders

PT or syndromes such as Alzheimer's disease, Parkinson's disease, multiple

PT sclerosis, diabetes, obesity, cancer, bronchial asthma, Crohn's disease.

XX Example C; SEQ ID NO 318; 330pp; English.

XX

CC The invention relates to human NOVX polypeptides and the polynucleotides

CC encoding them. The NOVX polypeptides and polynucleotides are useful for

CC determining the presence of or predisposition to a disease associated

CC with altered levels of the sequences in a mammalian subject, and for

CC treating or preventing a pathology associated with NOVX. The

CC polypeptides, polynucleotides and antibodies that bind immunospecifically

CC to the polypeptides are useful for treating or preventing disorders or

CC syndromes such as congenital heart defects, cardiomyopathy,

CC atherosclerosis, hypertension, pulmonary stenosis, scleroderma,

CC adenocarcinoma, haemophilia, graft-versus-host disease, cancer,

CC neurodegenerative disorders, Alzheimer's disease, Parkinson's disease,

CC multiple sclerosis, diabetes, obesity, bronchial asthma, acquired

CC immunodeficiency syndrome (AIDS), Crohn's disease, infectious disease,

CC anorexia and immune disorders. This sequence represents a PCR primer used

CC to amplify a human NOVX polynucleotide of the invention. Note: The

CC sequence data for this patent is also available from USPTO at

CC seqdata.uspto.gov/sequence.html.

XX

SQ Sequence 20 BP; 10 A; 3 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1240 TTCATCTTCGTCATCTT 1256

Db 18 TTCATCTTCGTCATTTT 2

RESULT 1635

ADMI4790/c

ID ADMI4790 standard; DNA; 20 BP.

XX

AC ADM14790;

XX

DT 01-JUL-2004 (first entry)

XX

DE Human mPES-1 chimeric antisense oligonucleotide SEQ ID NO:977.

XX chimeric; antisense oligonucleotide; phosphorothioate; human;

KW microsomal prostaglandin E2 synthase; mPES-1; mPES-1 inhibitor;

KW microsomal prostaglandin E2 synthase inhibitor; cytosolic; antidiabetic;

immunomodulator; cardiant; neuroprotective; antiinflammatory;  
 neuroprotective; nontropic; antiarthritic; vasotropic; ophthalmological;  
 immunomodulatory; cardiovascular; gene therapy; inflammation;  
 Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;  
 reperfusion injury; ophthalmic disorder; immunological disorder;  
 cardiovascular disorder; neurological disorder; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "phosphorothioate linkages and all cytidine  
 FT residues are 5-methylcytidines"  
 FT  
 FT modified\_base 1..5  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-O-methoxyethyls"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-O-methoxyethyls"  
 FT  
 FT WO2004028458-A2.  
 XX  
 XX 08-APR-2004.  
 XX  
 XX 25-SEP-2003; 2003WO-US030374.  
 XX  
 XX 25-SEP-2002; 2002US-0413549P.  
 XX  
 XX (PHAA ) PHARMACIA CORP.  
 XX  
 XX Gierse JK;  
 XX  
 XX WPI; 2004-305094/28.  
 XX  
 XX New antisense compound, having a sequence targeted to a nucleic acid  
 XX encoding mpGES-1, useful for preparing a composition for treating e.g.,  
 XX inflammation, Alzheimer's disease, arthritis, diabetes, cancer or  
 XX ischemia.  
 XX  
 XX Claim 4; SEQ ID NO 977; 132pp; English.  
 XX  
 XX The present sequence represents a chimeric antisense oligonucleotide  
 XX targeted to human microsomal prostaglandin E2 synthase (mpGES-1). The  
 XX human mpGES-1 gene is located on chromosome 9, more specifically to  
 XX 9q34.3. The present invention also describes: (1) antisense compounds,  
 XX having a sequence comprising 8-30 bp targeted to a nucleic acid encoding  
 XX mpGES-1, which specifically hybridise with the nucleic acid mpGES-1 and  
 XX inhibits its expression; (2) a method of inhibiting the expression of  
 XX mpGES-1 in cells or tissues; and (3) a method of treating an animal  
 XX having a disease or condition associated with mpGES-1. mpGES-1 chimeric  
 XX antisense oligonucleotides and antisense compounds have cytostatic,  
 XX antidiabetic, immunomodulator, cardiant, neuroprotective,  
 XX antiinflammatory, neuroprotective, nontropic, antiarthritic, vasotropic,  
 XX ophthalmological, immunomodulatory and cardiovascular activities, and can  
 XX be used as mpGES-1 inhibitors and in gene therapy. The antisense compound  
 XX can be used for preparing a composition for treating a disease or  
 XX condition associated with mpGES-1 e.g., inflammation, Alzheimer's  
 XX disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or  
 XX ophthalmic, immunological, cardiovascular or neurological disorder.  
 XX  
 XX Sequence 20 BP; 2 A; 7 C; 6 G; 5 T; 0 U; 0 Other;  
 XX  
 XX Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 XX Best Local Similarity 88.2%; Pred. No. 1e+03;  
 XX Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 XX  
 XX 1435 GAGGATGCCATGACACA 1451  
 XX |||||||

Db 19 GAGGATGCCCTGAGACA 3  
 RESULT 1636  
 ADM14933/C  
 ID ADM14933 standard; DNA; 20 BP.  
 XX  
 XX AC ADM14933;  
 XX  
 XX 01-JUL-2004 (first entry)  
 XX  
 XX Human mpGES-1 chimeric antisense oligonucleotide SEQ ID NO:1120.  
 XX  
 XX chimeric; antisense oligonucleotide; phosphorothioate; human;  
 KW microsomal prostaglandin E2 synthase; mpGES-1; mpGES-1 inhibitor;  
 KW microsomal prostaglandin E2 synthase inhibitor; cytostatic; antidiabetic;  
 KW immunomodulator; cardiant; neuroprotective; antiinflammatory;  
 KW neuroprotective; nontropic; antiarthritic; vasotropic; ophthalmological;  
 KW immunomodulatory; cardiovascular; gene therapy; inflammation;  
 KW Alzheimer's disease; arthritis; diabetes; cancer; ischaemia;  
 KW reperfusion injury; ophthalmic disorder; immunological disorder;  
 KW cardiovascular disorder; neurological disorder; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 XX  
 XX Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /\*tag= b  
 FT /mod\_base= OTHER  
 FT /note= "phosphorothioate linkages and all cytidine  
 FT residues are 5-methylcytidines"  
 FT modified\_base 1..5  
 FT /\*tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-O-methoxyethyls"  
 FT modified\_base 16..20  
 FT /\*tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-O-methoxyethyls"  
 FT  
 FT WO2004028458-A2.  
 XX  
 XX 08-APR-2004.  
 XX  
 XX 25-SEP-2003; 2003WO-US030374.  
 XX  
 XX 25-SEP-2002; 2002US-0413549P.  
 XX  
 XX (PHAA ) PHARMACIA CORP.  
 XX  
 XX Gierse JK;  
 XX  
 XX WPI; 2004-305094/28.  
 XX  
 XX New antisense compound, having a sequence targeted to a nucleic acid  
 XX encoding mpGES-1, useful for preparing a composition for treating e.g.,  
 XX inflammation, Alzheimer's disease, arthritis, diabetes, cancer or  
 XX ischemia.  
 XX  
 XX Claim 4; SEQ ID NO 1120; 132pp; English.  
 XX  
 XX The present sequence represents a chimeric antisense oligonucleotide  
 XX targeted to human microsomal prostaglandin E2 synthase (mpGES-1). The  
 XX human mpGES-1 gene is located on chromosome 9, more specifically to  
 XX 9q34.3. The present invention also describes: (1) antisense compounds,  
 XX having a sequence comprising 8-30 bp targeted to a nucleic acid encoding  
 XX mpGES-1, which specifically hybridise with the nucleic acid mpGES-1 and  
 XX inhibits its expression; (2) a method of inhibiting the expression of  
 XX mpGES-1 in cells or tissues; and (3) a method of treating an animal  
 XX having a disease or condition associated with mpGES-1. mpGES-1 chimeric  
 XX antisense oligonucleotides and antisense compounds have cytostatic,  
 XX antidiabetic, immunomodulator, cardiant, neuroprotective,  
 XX antiinflammatory, neuroprotective, nontropic, antiarthritic, vasotropic,  
 XX ophthalmological, immunomodulatory and cardiovascular activities, and can  
 XX be used as mpGES-1 inhibitors and in gene therapy. The antisense compound  
 XX can be used for preparing a composition for treating a disease or  
 XX condition associated with mpGES-1 e.g., inflammation, Alzheimer's  
 XX disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or  
 XX ophthalmic, immunological, cardiovascular or neurological disorder.



CC antiinflammatory, neuroprotective, nootropic, antiarthritic, vasotropic,  
 CC ophthalmological, immunomodulatory and cardiovascular activities, and can  
 CC be used as mPGES-1 inhibitors and in gene therapy. The antisense compound  
 CC can be used for preparing a composition for treating a disease or  
 CC condition associated with mPGES-1 e.g., inflammation, Alzheimer's  
 CC disease, arthritis, diabetes, cancer, ischaemia or reperfusion injury, or  
 CC ophthalmic, immunological, cardiovascular or neurological disorder.  
 XX  
 SQ Sequence 20 BP; 2 A; 8 C; 5 G; 5 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1435 GAGGATGCCATGAACA 1451  
 Db 20 GAGGATGCCCTGAGACA 4  
 RESULT 1637  
 ADO46783  
 ID ADO46783 standard; DNA; 20 BP.  
 XX  
 AC ADO46783;  
 XX  
 DT 15-JUL-2004 (first entry)  
 XX  
 DE Human oligonucleotide #2149.  
 XX  
 KW Human; ss; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-5;  
 KW CCR1; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; VCAM; tryptase a;  
 KW tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease;  
 KW lung disease; hyper-responsiveness; adenosine; adenosine A receptor;  
 KW asthma; lung allergy; inflammation; inflammatory disease;  
 KW airway inflammation; allergy; impeded respiration; cystic fibrosis; CF;  
 KW chronic obstructive pulmonary disease; COPD; allergic rhinitis;  
 KW acute respiratory distress syndrome; pulmonary hypertension;  
 KW lung inflammation; bronchitis; airway obstruction; bronchoconstriction.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US2004049022-A1.  
 XX  
 PD 11-MAR-2004.  
 XX  
 PF 25-JUL-2003; 2003US-00627930.  
 XX  
 PR 23-APR-2002; 2002WO-US013135.  
 PR 23-APR-2002; 2002WO-US013143.  
 XX  
 PA (NYCE/) NYCE J W.  
 PA (SAND/) SANDRASAGRA A.  
 PA (TANG/) TANG L.  
 PA (AGUI/) AGUILAR D.  
 PA (MILL/) MILLER S.  
 PA (SHAH/) SHAHABUDDIN S.  
 PA (LUHH/) LU H.  
 PA (CONG/) CONG H.  
 XX  
 PI Nyce JW, Sandrasagra A, Tang L, Aguilar D, Miller S;  
 PI Shahabuddin S, Lu H, Cong H;  
 XX  
 DR WPI; 2004-293804/27.  
 XX  
 XX Novel single or multiple target oligonucleotide anti-sense to e.g.  
 PT initiation codon, intron of respiratory disease-relevant gene e.g. CCR1,  
 PT RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.  
 PT asthma.  
 XX  
 PS Claim 2; SEQ ID NO 2249; 174pp; English.  
 XX  
 CC The invention relates to oligonucleotides anti-sense to an initiation  
 CC codon, coding region, 5' or 3' intron-exon junction, intron or region

CC with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target  
 CC chosen from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)-  
 CC 5 receptor, CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM,  
 CC tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention  
 CC also relates to a method of screening a candidate compound that binds to  
 CC one or more nucleic acid target(s) or expressed product(s), for the  
 CC prevention and/or treatment of a respiratory or lung disease. The  
 CC oligonucleotides are useful for reducing or inhibiting expression of a  
 CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor,  
 CC CCR1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a,  
 CC tryptase b, PDE4 A, PDE4 B, PDE4 C, or PDE4 D. The oligonucleotides are  
 CC useful for preventing or treating a respiratory or lung disease. The  
 CC respiratory or lung disease is associated with hyper-responsiveness to  
 CC and/or increased levels of, adenosine and/or levels of adenosine A  
 CC receptor(s), and/or asthma and/or lung allergies associated with  
 CC inflammation or an inflammatory disease. The respiratory or lung disease  
 CC is chosen from airway inflammation, allergy, asthma, impeded respiration,  
 CC cystic fibrosis (CF), chronic obstructive pulmonary disease (COPD),  
 CC allergic rhinitis, acute respiratory distress syndrome, pulmonary  
 CC hypertension, lung inflammation, bronchitis, airway obstruction or  
 CC bronchoconstriction. This sequence represents an oligonucleotide of the  
 CC invention.  
 XX

SQ Sequence 20 BP; 6 A; 4 C; 3 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1444 ATGAACATCCATCTT 1460

Db 2 ATGAACATCCATCTT 18

RESULT 1638

ADO44942

ID ADO44942 standard; DNA; 20 BP.

XX ADO44942;

AC ADO44942;

DT 15-JUL-2004 (first entry)

XX Human oligonucleotide #308.

DE Human; ss; interleukin-4 receptor; IL-4; interleukin-5 receptor; IL-5;  
 KW CCR1; CCR3; Eotaxin-1; RANTES; MCP4; CD23; ICAM; VCAM; tryptase a;  
 KW tryptase b; PDE4 A; PDE4 B; PDE4 C; PDE4 D; respiratory disease;  
 KW lung disease; hyper-responsiveness; adenosine; adenosine A receptor;  
 KW asthma; lung allergy; inflammation; inflammatory disease;  
 KW airway inflammation; allergy; impeded respiration; cystic fibrosis; CF;  
 KW chronic obstructive pulmonary disease; COPD; allergic rhinitis;  
 KW acute respiratory distress syndrome; pulmonary hypertension;  
 KW lung inflammation; bronchitis; airway obstruction; bronchoconstriction.  
 XX  
 OS Homo sapiens.

XX

XX US2004049022-A1.

PN 11-MAR-2004.

XX 25-JUL-2003; 2003US-00627930.

XX 23-APR-2002; 2002WO-US013135.

XX 23-APR-2002; 2002WO-US013143.

XX (NYCE/) NYCE J W.

XX (SAND/) SANDRASAGRA A.

XX (TANG/) TANG L.

XX (AGUI/) AGUILAR D.

XX (MILL/) MILLER S.

XX (SHAH/) SHAHABUDDIN S.

XX (LUHH/) LU H.

XX (CONG/) CONG H.

XX NYCE JW, Sandrasagra A, Tang L, Aguilar D, Miller S;  
 PI Shahabuddin S, Lu H, Cong H;  
 XX WPI; 2004-293804/27.  
 XX Novel single or multiple target oligonucleotide anti-sense to e.g. CCRL1,  
 PT initiation codon, intron of respiratory disease-relevant gene e.g. CCRL1,  
 PT RANTES, MCP4, useful for prophylaxis or treating respiratory disease e.g.  
 PT asthma.  
 XX Claim 2; SEQ ID NO 308; 174pp; English.  
 XX The invention relates to oligonucleotides anti-sense to an initiation  
 CC codon, coding region, 5' or 3' intron-exon junction, intron or region  
 CC with 2-10 nucleotides of the 5'-end or 3'-end of a nucleic acid target  
 CC chosen from a gene encoding interleukin (IL)-4 receptor, interleukin (IL)  
 CC -5 receptor, CCRL1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM,  
 CC tryptase a, tryptase b, PDE4 A, PDE4 B, PDE4 C or PDE4 D. The invention  
 CC also relates to a method of screening a candidate compound that binds to  
 CC one or more nucleic acid target(s) or expressed product(s), for the  
 CC prevention and/or treatment of a respiratory or lung disease. The  
 CC oligonucleotides are useful for reducing or inhibiting expression of a  
 CC gene or mRNA encoding interleukin-4 receptor, interleukin-5 receptor,  
 CC CCRL1, CCR3, Eotaxin-1, RANTES, MCP4, CD23, ICAM, VCAM, tryptase a,  
 CC tryptase b, PDE4 A, PDE4 B, PDE4 C, or PDE4 D. The oligonucleotides are  
 CC useful for preventing or treating a respiratory or lung disease. The  
 CC respiratory or lung disease is associated with hyper-responsiveness to  
 CC and/or increased levels of, adenosine and/or levels of adenosine A  
 CC receptor(s), and/or asthma and/or lung allergies associated with  
 CC inflammation or an inflammatory disease. The respiratory or lung disease  
 CC is chosen from airway inflammation, allergy, asthma, impeded respiration,  
 CC cystic fibrosis (CF), chronic obstructive pulmonary disease (COPD),  
 CC allergic rhinitis, acute respiratory distress syndrome, pulmonary  
 CC hypertension, lung inflammation, bronchitis, airway obstruction or  
 CC bronchoconstriction. This sequence represents an oligonucleotide of the  
 XX invention.  
 XX Sequence 20 BP; 6 A; 4 C; 4 G; 6 T; 0 U; 0 Other;  
 Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 1444 ATGAACATCATCTCTT 1460  
 DB 3 ATGAGCATCATCTT 19  
 RESULT 1639  
 ADM16195  
 ID ADM16195 standard; DNA; 20 BP.  
 AC ADM16195;  
 XX 15-JUL-2004 (first entry)  
 XX Murine SAC1 DNA PCR primer #422.  
 XX Mouse; SAC1; PCR; ss; carbohydrate; sweetener; ethanol; obesity;  
 KW diabetes; alcoholism; antidiabetic; alcohol; anorectic; antialcoholic;  
 KW primer.  
 XX Mus musculus.  
 OS US2004081964-A1.  
 PN 29-APR-2004.  
 XX 25-OCT-2002; 2002US-00280183.  
 XX 25-OCT-2002; 2002US-00280183.  
 XX

PA (BACH/) BACHMANOV A A.  
 PA (BEAU/) BEAUCHAMP G K.  
 PA (LISS/) LI S.  
 PA (LIXX/) LI X.  
 PA (REED/) REED D R.  
 PA (TORD/) TORDOFF M G.  
 PA (ROSS/) ROSS D A.  
 PA (OHMA/) OHMAN J D.  
 PA (CHAT/) CHATTERJEE A.  
 PA (DJON/) DE JONG P J.  
 XX Bachmanov AA, Beauchamp GK, Li S, Li X, Reed DR, Tordoff MG;  
 PI Ross DA, Ohman JD, Chatterjee A, De Jong PJ;  
 XX WPI; 2004-340133/31.  
 XX New isolated polynucleotides for sensing carbohydrates, other sweeteners,  
 PT or ethanol, useful for screening drugs for inhibition or restoration of  
 PT gene function as antidiabetic, antioesity or antialcohol consumption  
 PT therapies.  
 XX Example 12; SEQ ID NO 465; 148pp; English.  
 XX The invention relates to SAC1 polypeptides and the polynucleotides  
 CC encoding them. The polynucleotides contain a variation associated with  
 CC sensing carbohydrates, other sweeteners or ethanol. The invention also  
 CC relates to a method for analysing a biomolecule in a biological sample,  
 CC comprising altering SAC1 activity in the sample and measuring the  
 CC activity, a method for analysing a polynucleotide in a biological sample,  
 CC comprising contacting a polynucleotide in a biological sample with a  
 CC probe where the probe hybridises to a SAC1 polynucleotide to form a  
 CC hybridisation complex and detecting the hybridisation complex, a method  
 CC of identifying susceptibility to obesity or diabetes comprising comparing  
 CC the nucleotide sequence of the suspected SAC1 allele with a wild type  
 CC nucleotide sequence, where the difference between the suspected allele  
 CC and the wild-type sequence identifies a sequence variation of the SAC1  
 CC nucleotide sequence, and a method of treating or preventing obesity,  
 CC diabetes or alcoholism associated with expression of SAC1, comprising  
 CC administering to a subject a pharmaceutical composition and a transgenic  
 CC animal that carries an altered SAC1 allele. The methods and compositions  
 CC of the invention are useful for screening drugs for inhibition or  
 CC restoration of gene function as antidiabetic, antioesity or antialcohol  
 CC consumption therapies and for identifying sweeteners and alcohols. This  
 CC sequence represents a PCR primer used to amplify murine SAC1 DNA of the  
 CC invention.  
 XX Sequence 20 BP; 6 A; 3 C; 8 G; 3 T; 0 U; 0 Other;  
 QY 360 TGGGACAGTGCACG 376  
 DB 1 TGGGACAGTGCACG 17  
 RESULT 1640  
 ADP76418/c  
 ID ADP76418 standard; DNA; 20 BP.  
 XX ADP76418;  
 AC ADP76418;  
 XX 12-AUG-2004 (first entry)  
 XX Chimeric phosphorothioate oligonucleotide #217.  
 DE GFAT; Antidiabetic; Cardiant;  
 KW Glutamine-fructose-6-phosphate amidotransferase; diabetes; ischemia;  
 KW reperfusion; ss.  
 XX Synthetic.  
 OS



Tue Nov 2 13:39:09 2004

XX 24-APR-2002; 2002US-00131831.  
 PR 20-DEC-2002; 2002US-00325899.  
 XX (EXPR-) EXPRESSION DIAGNOSTICS INC.  
 XX Wohlgenuth J, Fry K, Woodward R, Ly N, Prentice J, Morris M;  
 PI Rosenberg S;  
 XX WPI; 2004-400724/37.  
 DR Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver,  
 PT pancreas, pancreatic islet, lung, bone marrow or stem cell transplant  
 PT rejection, in an individual, comprises detecting the expression level of  
 PT the genes.  
 XX Claim 58; SEQ ID NO 1163; 1762pp; English.  
 PS The present invention relates to diagnosing or monitoring transplant  
 XX rejection, e.g. cardiac or kidney transplant rejection, in an individual  
 CC comprises detecting the expression level of one or more genes. The  
 CC methods, system and kits are useful in diagnosing or monitoring  
 CC transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic  
 CC islet, lung, bone marrow or stem cell transplant rejection,  
 CC xenotransplant rejection or mechanical organ replacement rejection, in an  
 CC individual. The method is also useful in assessing the immune status of  
 CC an individual. The methods are also useful in diagnosing and monitoring  
 CC diseases that involve the immune system, e.g. rheumatoid arthritis,  
 CC lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or  
 CC viral, bacterial or fungal infection. The present sequence represents a  
 CC primer for a 50 mer oligonucleotide marker for diagnosis and monitoring  
 CC of allograft rejection and other disorders.  
 XX Sequence 20 BP; 2 A; 8 C; 5 G; 5 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1625 GAGGCCCGCAGCGAGCAG 1641  
 Db | | | | | | | | | | | | | | | | | | | |  
 17 GAGGCCCGCAGCGAGCAG 1  
 RESULT 1643  
 ADP11872/c  
 ID ADP11872 standard; DNA; 20 BP.  
 XX AC ADP11872;  
 XX 12-AUG-2004 (first entry)  
 DT Set 2 left PCR primer for marker probe #224.  
 DE transplant rejection; immune system; rheumatoid arthritis; lupus;  
 KW inflammatory bowel disease; multiple sclerosis; HIV; AIDS; ss; primer.  
 KW Homo sapiens.  
 OS WO2004042346-A2.  
 FN 21-MAY-2004.  
 PD 24-APR-2003; 2003WO-US012946.  
 DE Set 2 left PCR primer for marker probe #224.  
 XX transplant rejection; immune system; rheumatoid arthritis; lupus;  
 KW inflammatory bowel disease; multiple sclerosis; HIV; AIDS; ss; primer.  
 KW Homo sapiens.  
 OS WO2004042346-A2.  
 FN 21-MAY-2004.  
 PD 24-APR-2003; 2003WO-US012946.  
 XX 24-APR-2002; 2002US-00131831.  
 PR 20-DEC-2002; 2002US-00325899.  
 XX (EXPR-) EXPRESSION DIAGNOSTICS INC.  
 XX Wohlgenuth J, Fry K, Woodward R, Ly N, Prentice J, Morris M;  
 PI Rosenberg S;  
 XX WPI; 2004-400724/37.  
 DR Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver,  
 PT pancreas, pancreatic islet, lung, bone marrow or stem cell transplant  
 PT rejection, in an individual, comprises detecting the expression level of  
 PT the genes.  
 XX Claim 58; SEQ ID NO 1163; 1762pp; English.  
 PS The present invention relates to diagnosing or monitoring transplant  
 XX rejection, e.g. cardiac or kidney transplant rejection, in an individual  
 CC comprises detecting the expression level of one or more genes. The  
 CC methods, system and kits are useful in diagnosing or monitoring  
 CC transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic  
 CC islet, lung, bone marrow or stem cell transplant rejection,  
 CC xenotransplant rejection or mechanical organ replacement rejection, in an  
 CC individual. The method is also useful in assessing the immune status of  
 CC an individual. The methods are also useful in diagnosing and monitoring  
 CC diseases that involve the immune system, e.g. rheumatoid arthritis,  
 CC lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or  
 CC viral, bacterial or fungal infection. The present sequence represents a  
 CC primer for a 50 mer oligonucleotide marker for diagnosis and monitoring  
 CC of allograft rejection and other disorders.  
 XX Sequence 20 BP; 2 A; 8 C; 5 G; 5 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1625 GAGGCCCGCAGCGAGCAG 1641  
 Db | | | | | | | | | | | | | | | | | | | |  
 17 GAGGCCCGCAGCGAGCAG 1

DR WPI; 2004-400724/37.  
 XX Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver,  
 PT pancreas, pancreatic islet, lung, bone marrow or stem cell transplant  
 PT rejection, in an individual, comprises detecting the expression level of  
 PT the genes.  
 XX Claim 58; SEQ ID NO 1881; 1762pp; English.  
 PS The present invention relates to diagnosing or monitoring transplant  
 XX rejection, e.g. cardiac or kidney transplant rejection, in an individual  
 CC comprises detecting the expression level of one or more genes. The  
 CC methods, system and kits are useful in diagnosing or monitoring  
 CC transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic  
 CC islet, lung, bone marrow or stem cell transplant rejection,  
 CC xenotransplant rejection or mechanical organ replacement rejection, in an  
 CC individual. The method is also useful in assessing the immune status of  
 CC an individual. The methods are also useful in diagnosing and monitoring  
 CC diseases that involve the immune system, e.g. rheumatoid arthritis,  
 CC lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or  
 CC viral, bacterial or fungal infection. The present sequence represents a  
 CC primer for a 50 mer oligonucleotide marker for diagnosis and monitoring  
 CC of allograft rejection and other disorders.  
 XX Sequence 20 BP; 5 A; 7 C; 5 G; 3 T; 0 U; 0 Other;  
 SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03; 2; Indels 0; Gaps 0;  
 Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 503 CTGAGGGCTACTCTGGAG 519  
 Db | | | | | | | | | | | | | | | | | | | |  
 17 CCGTGGGCTACTCTGGAG 1  
 RESULT 1644  
 ADP10747  
 ID ADP10747 standard; DNA; 20 BP.  
 XX AC ADP10747;  
 XX 12-AUG-2004 (first entry)  
 DT Set 1 left PCR primer for marker probe #92.  
 DE transplant rejection; immune system; rheumatoid arthritis; lupus;  
 KW inflammatory bowel disease; multiple sclerosis; HIV; AIDS; ss; primer.  
 KW Homo sapiens.  
 OS WO2004042346-A2.  
 FN 21-MAY-2004.  
 PD 24-APR-2003; 2003WO-US012946.  
 XX 24-APR-2002; 2002US-00131831.  
 PR 20-DEC-2002; 2002US-00325899.  
 XX (EXPR-) EXPRESSION DIAGNOSTICS INC.  
 XX Wohlgenuth J, Fry K, Woodward R, Ly N, Prentice J, Morris M;  
 PI Rosenberg S;  
 XX WPI; 2004-400724/37.  
 DR Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver,  
 PT pancreas, pancreatic islet, lung, bone marrow or stem cell transplant  
 PT rejection, in an individual, comprises detecting the expression level of  
 PT the genes.  
 XX Claim 58; SEQ ID NO 756; 1762pp; English.  
 PS

CC The present invention relates to diagnosing or monitoring transplant  
CC rejection, e.g. cardiac or kidney transplant rejection, in an individual  
CC comprises detecting the expression level of one or more genes. The  
CC methods, system and kits are useful in diagnosing or monitoring  
CC transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic  
CC islet, lung, bone marrow or stem cell transplant rejection,  
CC xenotransplant rejection or mechanical organ replacement rejection, in an  
CC individual. The method is also useful in assessing the immune status of  
CC an individual. The methods are also useful in diagnosing and monitoring  
CC diseases that involve the immune system, e.g. rheumatoid arthritis,  
CC lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or  
CC viral, bacterial or fungal infection. The present sequence represents a  
CC primer for a 50 mer oligonucleotide marker for diagnosis and monitoring  
CC of allograft rejection and other disorders.

XX Sequence 20 BP; 7 A; 3 C; 9 G; 1 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 336 CGAGGACTTGAAGTGG 352

Db 4 CGAGGACTTGAAGGAGG 20

RESULT 1645

ADN48631/c

ID ADN48631 standard; DNA; 20 BP.

AC ADN48631;

XX 12-AUG-2004 (first entry)

DE Human Notch3 DNA antisense oligonucleotide #75.

XX Human; Notch3; ss; antisense oligonucleotide; phosphorothioate linkage;  
KW 2'-O-methoxyethyl sugar moiety; 5-methylcytosine;  
KW hyperproliferative disorder; cancer; cytostatic.

XX Homo sapiens.

XX US2004102390-A1.

XX 27-MAY-2004.

XX 21-NOV-2002; 2002US-00301832.

XX 21-NOV-2002; 2002US-00301832.

XX (ISIS-) ISIS PHARM INC.

XX Freier SM, Dobie KW;

XX WPI; 2004-399720/37.

XX New compounds, particularly oligonucleotides targeted to a nucleic acid  
PT encoding Notch3, useful for treating diseases associated with Notch3,  
PT e.g. hyperproliferative disorders.

XX Example 15; SEQ ID NO 86; 74pp; English.

XX The invention relates to a compound targeted to a nucleic acid molecule  
CC encoding the human Notch3 polypeptide. The compound is an antisense  
CC oligonucleotide that specifically hybridizes with the nucleic acid and  
CC inhibits expression of the polypeptide. The antisense oligonucleotide  
CC comprises at least one modified internucleoside linkage i.e. a  
CC phosphorothioate linkage, at least one modified sugar moiety, preferably  
CC a 2'-O-methoxyethyl sugar moiety, or at least one modified nucleobase  
CC comprising a 5-methylcytosine. The antisense compounds are useful for  
CC modulating the expression of the human Notch3 polypeptide and in  
CC preparation of a composition for treating hyperproliferative disorders,  
CC e.g. cancer. This sequence represents a human Notch3 DNA antisense

CC oligonucleotide of the invention.

XX Sequence 20 BP; 4 A; 9 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 357 TGATCGGAGAGTGACC 373

Db 17 TGATCGGAGTGAGTGACC 1

RESULT 1646

ADO56652/c

ID ADO56652 standard; DNA; 20 BP.

XX ADO56652;

XX 12-AUG-2004 (first entry)

XX Human presynaptic cytomatrix protein, PCLO, proximal SNP PCR primer #84.

XX gene therapy; human; ss; melanoma;

KW melanoma associated polymorphic variation;

KW presynaptic cytomatrix protein; PCLO; SNP;

KW single nucleotide polymorphism; PCR; primer.

XX Homo sapiens.

XX WO2004044164-A2.

XX 27-MAY-2004.

XX 06-NOV-2003; 2003WO-US035879.

XX 06-NOV-2002; 2002US-0424475P.

XX 23-JUL-2003; 2003US-0489703P.

XX (SEQU-) SEQUENOM INC.

XX Roth RB, Nelson MR, Braun A, Kammerer SM;

XX WPI; 2004-411721/38.

XX Identifying a subject at risk of melanoma, useful for treating melanoma,  
PT comprises detecting the presence or absence of one or more polymorphic  
PT variations associated with melanoma in a nucleic acid sample from a  
PT subject.

XX Example 6; Page 102; 295pp; English.

XX The invention relates to a method of identifying a subject at risk of  
CC melanoma comprising detecting the presence or absence of one or more  
CC polymorphic variations associated with melanoma in a nucleic acid sample  
CC from a subject. Preventing melanoma in a subject comprises detecting the  
CC presence or absence of one or more polymorphic variations associated with  
CC melanoma in a nucleic acid sample from a subject; and administering a  
CC melanoma preventative to a subject in need thereof based upon the  
CC presence or absence of the one or more polymorphic variations in the  
CC nucleic acid sample. The preventative reduces ultraviolet (UV) light  
CC exposure to the subject. The methods, nucleic acids, proteins, and  
CC compositions are useful for treating melanoma. The present sequence  
CC represents a human presynaptic cytomatrix protein, PCLO, proximal PCR  
CC primer.

XX Sequence 20 BP; 4 A; 5 C; 4 G; 7 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 160 ATGACACTCGAGGTGG 176

Db 19 ATACACATCCAGGTGG 3  
|| ||||| |||||  
RESULT 1647  
ADO85087/c  
ID ADO85087 standard; DNA; 20 BP.  
XX  
AC ADO85087;  
XX  
26-AUG-2004 (first entry)  
XX  
DE Human adipophilin antisense oligonucleotide seqid 43.  
XX  
XX antiarteriosclerotic; adipophilin modulator; adipophilin;  
KW adipophilin inhibitor; breast cancer-1; atherosclerosis; human;  
KW adipophilin; antisense oligonucleotide; antisense technology; ss.  
XX  
OS Homo sapiens.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "OTHER= Phosphorothioate backbone. All cytidines  
FT are 5-methylcytidines"  
FT modified\_base 1..5  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 15..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"  
FT US2004110291-A1.  
XX  
PN 10-JUN-2004.  
XX  
PD 10-DEC-2002; 2002US-00317253.  
XX  
PF 10-DEC-2002; 2002US-00317253.  
XX  
PR 10-DEC-2002; 2002US-00317253.  
XX  
PA (ISIS-) ISIS PHARM INC.  
XX  
PI Dobie KW;  
XX  
WPI; 2004-440368/41.  
XX  
DR New antisense oligonucleotide compounds, useful for diagnosing,  
PT preventing and/or treating diseases or conditions associated with  
PT aberrant expression or activity of adipophilin, such as atherosclerosis.  
XX  
PS Example 15; SEQ ID NO 43; 36pp; English.  
XX  
XX The invention describes a new compound (I) comprises 8-80 nucleobases in  
CC length targeted to a nucleic acid molecule encoding adipophilin, where  
CC the compound specifically hybridizes with the nucleic acid and inhibits  
CC the expression of adipophilin. Also described are: a method of inhibiting  
CC the expression of adipophilin in cells or tissues, comprising contacting  
CC the cells or tissues with (I) so that expression of adipophilin is  
CC inhibited; a method of treating an animal having a disease or condition  
CC associated with breast cancer-1, comprising administering (I) to the  
CC animal so that expression of adipophilin is inhibited; a method of  
CC screening for a modulator of adipophilin, comprising contacting a  
CC preferred segment of a nucleic acid molecule encoding adipophilin with  
CC one or more candidate modulators, and identifying for one or more  
CC modulators of adipophilin expression which modulate the expression of  
CC adipophilin; a diagnostic method for identifying a disease state,  
CC comprising identifying the presence of adipophilin in a sample using at  
CC least one of the primers selected from a fully defined sequence of 20, 18  
CC or 23 bp (SEQ ID NO: 5, 6 or 7) as given in the specification; and a kit  
CC or assay comprising (I). The methods and compositions of the present  
CC  
invention are useful for the diagnosis, prevention and/or treatment of  
CC diseases or conditions associated with aberrant expression or activity of  
CC adipophilin, such as atherosclerosis. This sequence represents a human  
CC adipophilin antisense oligonucleotide.  
XX  
SQ Sequence 20 BP; 1 A; 7 C; 4 G; 8 T; 0 U; 0 Other;  
Query Match 0.8%; Score 13.8; DB 1; Length 20;  
Best Local Similarity 88.2%; Pred. No. 1e+03;  
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
XX  
QY 187 GACAAGACCAATGGTGC 203  
||||||| |||||  
Db 20 GACAAGACCAAGGGGC 4  
RESULT 1648  
ADP85732  
ID ADP85732 standard; DNA; 20 BP.  
XX  
AC ADP85732;  
XX  
26-AUG-2004 (first entry)  
XX  
DE Human Talin antisense oligonucleotide, ISIS #109176.  
XX  
KW Antisense; Talin; muscular disorder; haematologic disorder;  
KW cardiac disorder; hyperproliferative disorder; cancer; human;  
KW phosphorothioate; ss.  
XX  
OS Homo sapiens.  
XX  
OS Synthetic.  
XX  
FH Key Location/Qualifiers  
FT modified\_base 1..20  
FT /\*tag= b  
FT /mod\_base= OTHER  
FT /note= "Phosphorothioate backbone where all cytidine  
FT residues are 5-methylcytidines"  
FT modified\_base 1..5  
FT /\*tag= a  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
FT modified\_base 16..20  
FT /\*tag= c  
FT /mod\_base= OTHER  
FT /note= "2'-methoxyethyl (2'-MOE) nucleotides"  
XX  
PN US2004110705-A1.  
XX  
PD 10-JUN-2004.  
XX  
PF 11-SEP-2003; 2003US-00415463.  
XX  
PR 30-OCT-2000; 2000US-00702251.  
XX  
PR 30-OCT-2001; 2001WO-US047585.  
XX  
PA (BENN/) BENNETT C F.  
XX (COWS/) COWSERT L M.  
XX  
PI Bennett CF, Cowsert LM;  
XX  
WPI; 2004-440384/41.  
XX  
XX New compounds, particularly antisense oligonucleotides targeted to a  
PT nucleic acid encoding talin, useful for treating muscular, cardiac,  
PT hematologic, or hyperproliferative disorders.  
XX  
PS Claim 3; SEQ ID NO 77; 48pp; English.  
XX  
XX The invention relates to novel antisense compounds targeted to a nucleic  
CC acid molecule encoding human Talin to and inhibit its expression. The  
CC invention is useful for treating a disease or condition associated with  
CC

CC Talin such as a disease or condition e.g. muscular, haematologic, cardiac  
 CC or hyperproliferative disorder such as cancer. The present sequence is an  
 CC antisense oligonucleotide targeted to human Talin DNA.

XX Sequence 20 BP; 5 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;  
 Best Local Similarity 88.2%; Pred. No. 1e+03;  
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1571 ACTCAGGCGAGCGCT 1587

Db 4 ACTCTGGCAGGCATCT 20

RESULT 1649

ADP74448/c

ID ADP74448 standard; DNA; 20 BP.

AC ADP74448;

DT 26-AUG-2004 (first entry)

DE Human NRF antisense oligonucleotide ISIS264076.

XX Human; ss; antisense; NRF; NF-kappaB repressing factor;  
 KW nuclear factor kappaB; immune response; inflammatory response;  
 KW oncogenesis; apoptosis; cell cycle; differentiation; cell migration;  
 KW chromosome Xq24-25.

OS Homo sapiens.

XX Key Location/Qualifiers

FT modified\_base 1..20

FT /tag= b

FT /mod\_base= OTHER

FT /note= "Phosphorothioate backbone and all cytidines are 5

FT modified\_base 1..5

FT /tag= a

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl residue"

FT modified\_base 16..20

FT /tag= c

FT /mod\_base= OTHER

FT /note= "2'-methoxyethyl residue"

XX US2004110156-A1.

XX 10-JUN-2004.

XX 10-DEC-2002; 2002US-00317271.

XX 10-DEC-2002; 2002US-00317271.

XX (ISIS-) ISIS PHARM INC.

XX Dobie KW;

XX WPI; 2004-440344/41.

XX New antisense oligonucleotides for modulating NF-kappaB repressing factor  
 PT expression, useful for diagnosing, preventing or treating diseases or  
 PT conditions involving an immune response.  
 XX Example 15; SEQ ID NO 82; 61pp; English.

XX The invention relates to a compound 8-80 nucleobases in length targeted  
 CC to a nucleic acid molecule encoding NF-kappaB repressing factor (NRF). NF  
 CC -kappaB (nuclear factor kappaB) is involved in such cellular processes as  
 CC the immune response, inflammatory response, oncogenesis, apoptosis, cell  
 CC cycle, differentiation and cell migration. The compound (an antisense  
 CC oligonucleotide) specifically hybridises with the nucleic acid molecule

CC encoding NRF (which appears as ADP74371 and comprises nucleotides 469701-  
 CC 489000 of the X chromosome containing the NRF gene at Xq24-25) and  
 CC inhibits the expression of NRF. Also included are inhibiting the  
 CC expression of NRF in cells or tissues, screening for a modulator of NRF,  
 CC a diagnostic method for identifying a disease state, a kit or assay  
 CC device comprising the above compound, and treating an animal having a  
 CC disease or condition associated with NRF. The antisense oligonucleotide  
 CC is useful for inhibiting the expression of NRF in cells or tissues to  
 CC prevent or treat diseases associated with NRF. The antisense oligonucleotide  
 CC as diseases or conditions involving an immune response. In addition, the  
 CC compound is used for diagnostics, prophylaxis, or as research reagents or  
 CC kits. The present sequence represents an antisense oligonucleotide  
 CC targeting NRF.

XX Sequence 20 BP; 6 A; 5 C; 5 G; 4 T; 0 U; 0 Other;

Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1166 TGGGCTGCATCTCTAT 1182

Db 20 TGGGCTGCAGCTTCCAT 4

RESULT 1650

ADQ09470/c

ID ADQ09470 standard; DNA; 20 BP.

XX AC ADQ09470;

XX 09-SEP-2004 (first entry)

XX Murine Angiopoietin-2 DNA antisense oligonucleotide #6.

XX Mouse; Angiopoietin-2; ss; antisense oligonucleotide;  
 KW phosphorothioate linkage; 2'-O-methoxyethyl sugar moiety;  
 KW 5-methylcytosine; hyperproliferative disorder; cancer; cytostatic.

OS Mus musculus.

XX Key Location/Qualifiers

FT modified\_base 1..20

FT /tag= b

FT /mod\_base= OTHER

FT /note= "OTHER= Phosphorothioate backbone. All cytidines  
 are 5-methylcytidines"

FT modified\_base 1..5

FT /tag= a

FT /mod\_base= OTHER

FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"

FT modified\_base 16..20

FT /tag= c

FT /mod\_base= OTHER

FT /note= "OTHER= 2'-O-Methoxyethyl (2'-MOE) nucleotides"

XX US2004115640-A1.

XX 17-JUN-2004.

XX 11-DEC-2002; 2002US-00317803.

XX 11-DEC-2002; 2002US-00317803.

XX (ISIS-) ISIS PHARM INC.

XX Myers K, Dobie KW;

XX WPI; 2004-449380/42.

XX New oligonucleotide compound that inhibits expression of Angiopoietin-2,  
 PT useful for preparing a composition for treating hyperproliferative  
 PT disorder, e.g., cancer.

XX Example 16; SEQ ID NO 106; 102pp; English.

PS The invention relates to a compound targeted to a nucleic acid molecule

XX encoding the human Angiopoietin-2 polypeptide. The compound is an

CC antisense oligonucleotide that specifically hybridizes with the nucleic

CC acid and inhibits expression of the polypeptide. The antisense

CC oligonucleotide comprises at least one modified internucleoside linkage

CC i.e. a phosphorothioate linkage, at least one modified sugar moiety,

CC preferably a 2'-O-methoxyethyl sugar moiety, or at least one modified

CC nucleobase comprising a 5-methylcytosine. The antisense compounds are

CC useful for modulating the expression of the human Angiopoietin-2

CC polypeptide and in preparation of a composition for treating

CC hyperproliferative disorders, e.g. cancer. This sequence represents an

CC antisense oligonucleotide targeted to DNA encoding the murine

CC Angiopoietin-2 polypeptide of the invention.

XX Sequence 20 BP; 3 A; 7 C; 5 G; 5 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 817 ACGGAGAGTCCCTCAC 833

DB 19 ACGGAGAGGCTCTCAC 3

RESULT 1651

ADP68684/c

ID ADP68684 standard; DNA; 20 BP.

XX ADP68684;

XX 09-SEP-2004 (first entry)

DT Mouse PPAR-alpha antisense oligonucleotide seqid 120.

DE

XX cytosinatic; gene therapy; PPAR-alpha;

KW peroxisome proliferator-activated receptor-alpha; PPAR-alpha modulator;

KW PPAR-alpha associated disorder; hyperproliferative disorder; mouse;

KW antisense oligonucleotide; antisense technology; ss.

XX Mus musculus.

XX US2004115637-A1.

XX 17-JUN-2004.

XX 11-DEC-2002; 2002US-00317500.

XX 11-DEC-2002; 2002US-00317500.

XX (ISIS-) ISIS PHARM INC.

XX McKay R, Dobie KW;

XX WPI; 2004-449378/42.

XX New oligonucleotide compound that inhibits expression of PPAR-alpha,

PT useful for preparing a composition for treating hyperproliferative

PT disorders, e.g. cancer.

XX Example 16; SEQ ID NO 120; 121pp; English.

XX The invention describes a compound, having a sequence comprising 8-80 bp

CC targeted to a nucleic acid encoding PPAR-alpha (peroxisome proliferator-

CC activated receptor-alpha), that specifically hybridizes with the nucleic

CC acid encoding PPAR-alpha comprising 86001-bp sequence and inhibits

CC expression of PPAR-alpha. Also described are: a method of inhibiting the

CC expression of PPAR-alpha in cells or tissues; a method of screening for a

CC modulator of PPAR-alpha; a diagnostic method for identifying a disease

PT state; a kit or assay device comprising the compound; and a method of

PT useful for preparing a composition for treating hyperproliferative

PT disorders, e.g. cancer.

XX Example 16; SEQ ID NO 120; 121pp; English.

XX The invention describes a compound, having a sequence comprising 8-80 bp

CC targeted to a nucleic acid encoding PPAR-alpha (peroxisome proliferator-

CC activated receptor-alpha), that specifically hybridizes with the nucleic

CC acid encoding PPAR-alpha comprising 86001-bp sequence and inhibits

CC expression of PPAR-alpha. Also described are: a method of inhibiting the

CC expression of PPAR-alpha in cells or tissues; a method of screening for a

CC modulator of PPAR-alpha; a diagnostic method for identifying a disease

CC state; a kit or assay device comprising the compound; and a method of

CC treating an animal having a disease or condition associated with PPAR-

CC alpha. The oligonucleotide compound is useful for preparing a composition

CC for treating hyperproliferative disorder e.g. cancer. This sequence

CC represents a mouse peroxisome proliferator-activated receptor-alpha (PPAR

CC -alpha) antisense oligonucleotide.

XX Sequence 20 BP; 3 A; 5 C; 5 G; 7 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 599 TTGGGAAACTGGAGACC 615

DB 17 TTGGGAAACTGGAGACC 1

RESULT 1652

ADP68800

ID ADP68800 standard; DNA; 20 BP.

XX ADP68800;

XX 09-SEP-2004 (first entry)

DT Mouse PPAR-alpha antisense oligonucleotide seqid 236.

DE

XX cytosinatic; gene therapy; PPAR-alpha;

KW peroxisome proliferator-activated receptor-alpha; PPAR-alpha modulator;

KW PPAR-alpha associated disorder; hyperproliferative disorder; mouse;

KW antisense oligonucleotide; antisense technology; ss.

XX Homo sapiens.

XX US2004115637-A1.

XX 17-JUN-2004.

XX 11-DEC-2002; 2002US-00317500.

XX 11-DEC-2002; 2002US-00317500.

XX (ISIS-) ISIS PHARM INC.

XX McKay R, Dobie KW;

XX WPI; 2004-449378/42.

XX New oligonucleotide compound that inhibits expression of PPAR-alpha,

PT useful for preparing a composition for treating hyperproliferative

PT disorders, e.g. cancer.

XX Example 16; SEQ ID NO 236; 121pp; English.

XX The invention describes a compound, having a sequence comprising 8-80 bp

CC targeted to a nucleic acid encoding PPAR-alpha (peroxisome proliferator-

CC activated receptor-alpha), that specifically hybridizes with the nucleic

CC acid encoding PPAR-alpha comprising 86001-bp sequence and inhibits

CC expression of PPAR-alpha. Also described are: a method of inhibiting the

CC expression of PPAR-alpha in cells or tissues; a method of screening for a

CC modulator of PPAR-alpha; a diagnostic method for identifying a disease

CC state; a kit or assay device comprising the compound; and a method of

CC treating an animal having a disease or condition associated with PPAR-

CC alpha. The oligonucleotide compound is useful for preparing a composition

CC for treating hyperproliferative disorder e.g. cancer. This sequence

CC represents a mouse peroxisome proliferator-activated receptor-alpha (PPAR

CC -alpha) antisense oligonucleotide.

XX Sequence 20 BP; 7 A; 5 C; 5 G; 3 T; 0 U; 0 Other;

SQ Query Match 0.8%; Score 13.8; DB 1; Length 20;

Best Local Similarity 88.2%; Pred. No. 1e+03;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;



QY 599 TTGGGAAACTGGAGACC 615  
 || ||||| |||||  
 Db 4 TTGGGAAACTGCAGACC 20  
  
 RESULT 1653  
 ADP96460  
 ID ADP96460 standard; DNA; 20 BP.  
 XX AC  
 XX ADP96460;  
 XX  
 XX 23-SEP-2004 (first entry)  
 XX  
 XX Human DUSP6 antisense oligonucleotide IS15103229.  
 XX  
 KW Human; antisense; ss; dual specific phosphatase 6; DUSP6; MAP kinase;  
 KW extracellular signal related kinase; ERK; hyperproliferative disorder;  
 KW developmental disorder; neural disorder; apoptotic disorder;  
 KW chromosome 12q22-23.  
 XX  
 OS Homo sapiens.  
 OS  
 FH Key Location/Qualifiers  
 FT modified\_base 1..20  
 FT /tag= b  
 FT /mod\_base= OTHER  
 FT /note= "Phosphorothioate backbone and all cytidines are 5'-methylcytidines"  
 FT modified\_base 1..5  
 FT /tag= a  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl residue"  
 FT modified\_base 16..20  
 FT /tag= c  
 FT /mod\_base= OTHER  
 FT /note= "2'-methoxyethyl residue"  
 XX  
 XX US2004127451-A1.  
 XX  
 PD 01-JUL-2004.  
 XX  
 XX 09-FEB-2004; 2004US-00774888.  
 XX  
 XX 18-JUL-2002; 2002US-00199221.  
 PR  
 XX (MONI/) MONIA B P.  
 PA (COWS/) COWSERT L M.  
 PA (DOBI/) DOBIE K W.  
 XX  
 XX Monia BP, Cowsert LM, Dobie KW;  
 PI  
 XX WPI; 2004-499137/47.  
 DR  
 XX  
 PT New antisense oligonucleotides which inhibit the expression of dual  
 PT specific phosphatase 6, useful for e.g. treating disease or condition  
 PT associated with the expression of dual specific phosphatase.  
 XX  
 PS Example 15; SEQ ID NO 29; 54pp; English.  
 XX  
 CC The invention relates to an oligomeric compound (an antisense  
 CC oligonucleotide) 8-50 nucleobases in length comprising a sequence  
 CC complementary to a nucleic acid molecule encoding dual specific  
 CC phosphatase 6 (DUSP6, phosphorylating Map kinase and extracellular signal  
 CC related kinase, ERK) appearing as ADP96435. Also included are a  
 CC composition comprising the oligonucleotide (and a pharmaceutical carrier  
 CC or diluent) and a method of inhibiting the expression of dual specific  
 CC phosphatase 6 in cells or tissues comprising contacting the cells or  
 CC tissues with the antisense oligonucleotide. The oligomeric compound  
 CC inhibits the expression of dual specific phosphatase 6 by at least 60%,  
 CC and hybridises to nucleobases 369-389, 480-500, 657-677, 713-818, 923-  
 CC 1028, 1196-1216, 12771693, or 1757-1860 in the coding region of SEQ ID  
 CC NO: 4. The oligomeric compound hybridises to nucleobases 53-195 in the 5',

```

AAQ27035
ID AAQ27035 standard; DNA; 21 BP.
XX
XX AAQ27035;
AC
XX 21-JAN-1993 (first entry)
DT
XX
XX HCV primer P6.
DE
XX Recombinant vector; E. coli; diagnostic; reagent; type C hepatitis; PCR;
KW polymerase chain reaction; ss.
XX
XX Synthetic.
OS
XX JP04179482-A.
FN
XX
XX 26-JUN-1992.
PD
XX
XX 11-NOV-1990; 90JP-00304417.
PF
XX
XX 11-NOV-1990; 90JP-00304417.
PR
XX
XX (TOKU ) TOKUYAMA SODA KK.
PA
XX
XX WPI; 1992-263663/32.
DR
XX
XX Hepatitis C virus antigen expressed as recombinant in E.coli - useful for
PT diagnosis of hepatitis C virus infection.
PT
XX
XX Disclosure; Page 64; 66pp; Japanese.
PS
XX
XX The sequences given in AAQ27030-77 are primers. These were used to
CC amplify the claimed hepatitis C virus genes of the invention which could
CC then be inserted into an E. coli vector. The polypeptides encoded by the
CC vectors were useful as diagnostic reagents for type C hepatitis and they
CC may be produced efficiently by recombinant methods
CC
XX Sequence 21 BP; 1 A; 5 C; 13 G; 2 T; 0 U; 0 Other;
SQ

Query Match 0.8%; Score 13.8; DB 1; Length 21;
Best Local Similarity 88.2%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 228 GAGTGGTGGTGGTGGCG 244
||| ||||| |||||
Db 5 GAGGGGTGGCGTGGCG 21

RESULT 1657
AAQ56381
ID AAQ56381 standard; DNA; 21 BP.
XX
XX AAQ56381;
AC
XX
XX 25-MAR-2003 (revised)
DT
XX 29-JUL-1994 (first entry)
DT
XX
XX L1 consensus primer HPV6 typing probe MY12.
DE
XX
XX Human papilloma virus; amplification; polymerase chain reaction; PCR;
KW detection; assay; ss.
KW
XX
XX Synthetic.
OS
XX
XX US5283171-A.
PN
XX
XX 01-FEB-1994.
PD
XX
XX 15-FEB-1991; 91US-00651356.
PF
XX
XX 09-SEP-1988; 88US-00243486.
PR
XX 10-MAR-1989; 89US-00322550.
PR
XX 29-AUG-1989; 89WO-US003747.
PR
XX
XX (UVRP ) UNIV ROCHESTER.
PA
XX (HOFF ) HOFFMANN LA ROCHE INC.
PA
XX
XX Wolinsky SM, Broker TR, Ting Y, Manos MM, Wright DK;
XX
XX WPI; 1994-048082/06.
XX
XX Detection of genital human papilloma virus - by PCR amplification using
XX defined consensus primer pairs.
XX
XX Disclosure; Page 8; 13pp; English.
XX
XX The sequence is that of HPV6 typing probe MY12 for use with L1 consensus
XX primers as part of a simple and rapid assay method for detecting and
XX typing HPV in biological samples. (Updated on 25-MAR-2003 to correct PF
XX field.)
XX
XX Sequence 21 BP; 6 A; 8 C; 1 G; 6 T; 0 U; 0 Other;
SQ

Query Match 0.8%; Score 13.8; DB 1; Length 21;
Best Local Similarity 88.2%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

AAQ27035
ID AAQ27035 standard; DNA; 21 BP.
XX
XX AAQ27035;
AC
XX 21-JAN-1993 (first entry)
DT
XX
XX HCV primer P6.
DE
XX Recombinant vector; E. coli; diagnostic; reagent; type C hepatitis; PCR;
KW polymerase chain reaction; ss.
XX
XX Synthetic.
OS
XX JP04179482-A.
FN
XX
XX 26-JUN-1992.
PD
XX
XX 11-NOV-1990; 90JP-00304417.
PF
XX
XX 11-NOV-1990; 90JP-00304417.
PR
XX
XX (TOKU ) TOKUYAMA SODA KK.
PA
XX
XX WPI; 1992-263663/32.
DR
XX
XX Hepatitis C virus antigen expressed as recombinant in E.coli - useful for
PT diagnosis of hepatitis C virus infection.
PT
XX
XX Disclosure; Page 64; 66pp; Japanese.
PS
XX
XX The sequences given in AAQ27030-77 are primers. These were used to
CC amplify the claimed hepatitis C virus genes of the invention which could
CC then be inserted into an E. coli vector. The polypeptides encoded by the
CC vectors were useful as diagnostic reagents for type C hepatitis and they
CC may be produced efficiently by recombinant methods
CC
XX Sequence 21 BP; 1 A; 5 C; 13 G; 2 T; 0 U; 0 Other;
SQ

Query Match 0.8%; Score 13.8; DB 1; Length 21;
Best Local Similarity 88.2%; Pred. No. 1.1e+03;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 228 GAGTGGTGGTGGTGGCG 244
||| ||||| |||||
Db 5 GAGGGGTGGCGTGGCG 21

RESULT 1656
AAV05593
ID AAV05593 standard; DNA; 21 BP.
XX
XX AAV05593;
AC
XX
XX 22-MAY-1998 (first entry)
DT
XX
XX Primer for hepatitis C virus antigen DNA.
XX
XX non-A non-B hepatitis virus; NANBH; hepatitis C virus; HCV; antigen;
XX diagnosis; detection; PCR primer; ss.
XX
XX Synthetic.
OS
XX Hepatitis virus.
OS
XX
XX JP05176774-A.
PN
XX
XX 20-JUL-1993.
PD
XX
XX 18-DEC-1991; 91JP-00354708.
PF
XX
XX 18-DEC-1990; 90JP-00412020.
PR
XX
XX (SHIM/) SHIMOTONO K.
PA

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